

ANKYLOS[®]

DENSPLY
FRIADENT

ExpertEase[™] Surgery
Step-by-Step

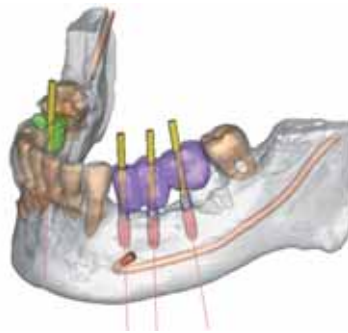
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A line art illustration on a teal background showing a dental procedure. On the left, a patient's head is shown in profile with a dental chair. A hand is using a handpiece to work on the patient's teeth. On the right, another hand is holding a long, thin instrument, possibly a retractor or a guide, near the patient's mouth. Dotted lines and arrows indicate the movement and alignment of the instruments. The word "Surgery" is written in a large, light blue, sans-serif font across the bottom half of the illustration.

Surgery

ExpertEase™ computer-guided planning and surgical guides

In the first stage the future denture is designed with reference to esthetic, functional and phonetic factors, and then the required implants are planned with the aid of 3D-scan and the ExpertEase™ software.



(Photos: Van Ghemen Dental Labor, Berlin/D and Dr. Dhom and Partner Practice, Ludwigshafen/D)

Scanning guide / scan

After the 3D-scan of the patient and production of the scanning guide by CT (computed tomography) or DVT (digital volume tomography), the ExpertEase™ software shows not only the patient's jaw but also the planned dentition in the 3D-model.

3D-planning

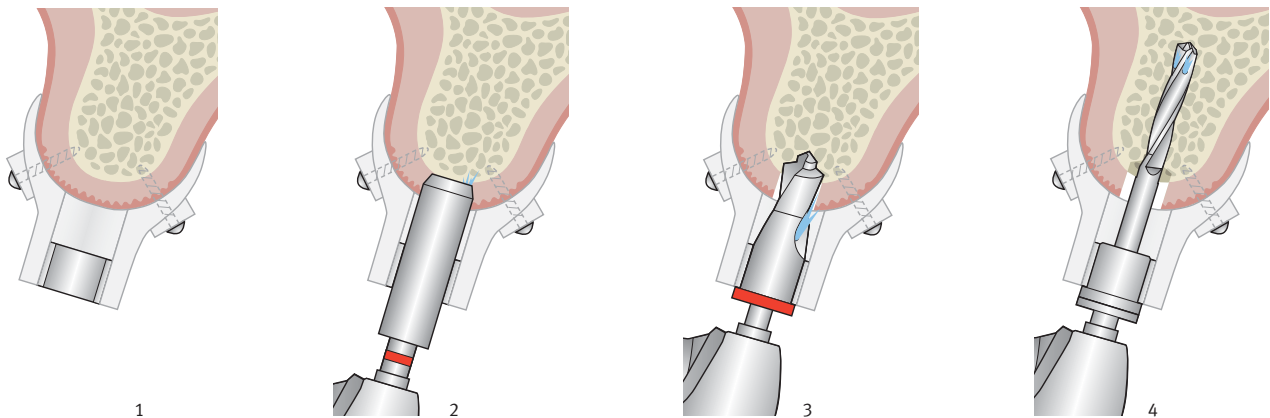
The ExpertEase™ software can be used for accurate and safe compilation of all information relevant for implant placement in any region of the jaw and the implant position and size.

Surgical guide

All three types of ExpertEase™ surgical guides (bone-supported, mucosa-supported and tooth-supported) are fabricated by computer-controlled stereolithography using a laser, which guarantees accurate transfer of the virtually planned implant positions and alignments in the patient's mouth.

Step-by-Step: ANKYLOS® ExpertEase™ surgery

The ANKYLOS® ExpertEase™ surgical kit contains all instruments required for guided implant placement. The instruments for A and B-implants are organized by sequence of use, a logical arrangement that supports fast and simple implant site preparation.



1 | Fixing the guide

The procedure varies depending on the type of surgical guide:

- Bone-supported ExpertEase™ guide
- Mucosa-supported ExpertEase™ guide (see illustration)
- Tooth-supported ExpertEase™ guide

Please follow the instructions for use when using the instruments.

The transgingival procedure with a mucosa-supported guide is described below. The tissue punch is unnecessary with the gingiva folded back.

2 | Tissue punch

The **ANKYLOS® tissue punch GS** is used to make a minimally invasive circular incision in the implant diameter to the coronal bone margin.

3 | Initial drilling

The **ANKYLOS® initial drill GS** is used to remove the mucosa and if applicable the bone coronal to the implant shoulder. The initial drill is guided directly in the guide sleeve.

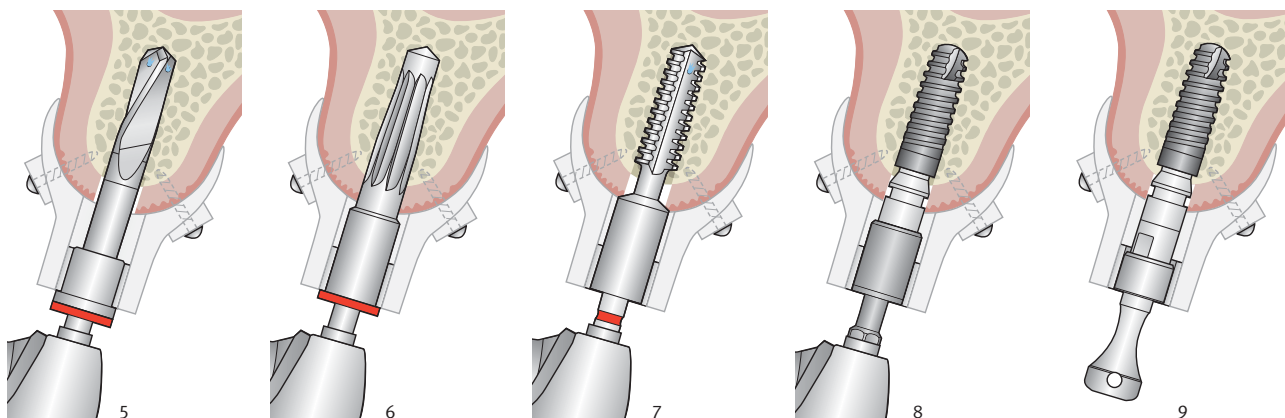
4 | Pilot drilling

The **ANKYLOS® twist drill GS D 2.0** is the drill with the smallest diameter (2 mm) and is used to drill the first hole. The pilot drill of the planned implant length is used with a drill sleeve and, like all drills, has a mechanical depth stop, which ensures that the planned drilling depth is not exceeded.

All twist drills and Tri-Spade drills are fitted precisely into the guide with the Sleeve-on-Drill™ system with a guide sleeve that can be fixed to the instrument.



Twist drills and Tri-Spade drills are available for implants A 8–14 and B 8–14 in the length of the implant (end-length drills). Initially, for L 11 and L 14 length implants, a first drilling is performed with the L 8 or L 9.5 drill in order to ensure the correct direction for the Sleeve-on-Drill™ sleeve on the L 11/L 14 drill.



5 | Expansion drilling

The **ANKYLOS® Tri-Spade drills GS A and B** are available in the implant lengths and diameters and are used to prepare the implant site step by step until the planned implant diameter is reached. The Tri-Spade drills are used in accordance with the length of the planned implant. This means that the shortest possible instrument is always available where volume is restricted. Confusion is virtually impossible with the color-coding and laser-etched labeling.

6 | Crestal expansion

In the ANKYLOS® system the **conical reamer GS** is used for conical expansion of the drilled hole in the crestal region and it is guided directly into the guide sleeve.

7 | Tapping

The **ANKYLOS® tap GS** is used to tap the implant thread after crestal preparation with the reamer. It is not necessary to tap the thread where the bone density is very low.

8 | Screwing in the implant

The ANKYLOS® implant is screwed in to the planned insertion depth with the **ANKYLOS® implant driver GS**.

9 | Stabilization abutment

The **stabilization abutment** is placed in the placement head and prevents displacement to the side and rotation of the surgical guide during preparation of multiple implant sites. Stabilization abutments must be used for the first two implants, and are optional for all additional implants.

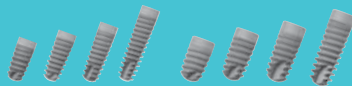
Computer-guided implant placement with ANKYLOS® ExpertEase™

For more than 20 years ANKYLOS® has been the key to permanent hard- and soft-tissue stability and for ensuring long-term red-white esthetics with the unique friction-locked and keyed TissueCare Connection based on the conical principle. The ExpertEase™ guided surgery system with the specially developed ANKYLOS® ExpertEase™ instruments makes a perfect esthetic result even more predictable.

Predictable results with computer-guided 3D-planning and insertion

The implant placement procedure is planned in 3D with the ExpertEase™ software. It provides a complete image of the patient's anatomy for selection and placement of implants and abutments.

Patient-specific ExpertEase™ surgical guides transfer the results of the planning to the patient's mouth accurate down to the sub-millimeter range. All ANKYLOS® ExpertEase™ twist drills and Tri-Spade drills are directed in the surgical guide by the Sleeve-on-Drill™ system. An integrated drill-stop system ensures accurate depth control for every drill.



ANKYLOS® C/X implants for computer-guided implantology with ExpertEase™

∅ \ L	8 mm	9.5 mm	11 mm	14 mm
3.5 mm	A 8	A 9.5	A 11	A 14
4.5 mm	B 8	B 9.5	B 11	B 14

Color-coding

Every ANKYLOS® C/X implant diameter is marked with a specific color, which identifies all implant packages, instruments and prosthetic components. The color-coding makes identification of the diameter easy without danger of confusion for ANKYLOS® ExpertEase™.

Some products may not be available in all countries.
Please contact your DENTSPLY Friadent representative
to obtain up to date information on the product range
and on availability.

Order no. 6-252066/002

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