

Implant-Guide® Components

Implant-Assistant®

Plastic base of the Implant-Guide

Guiding sleeves

Drills with drill stopper

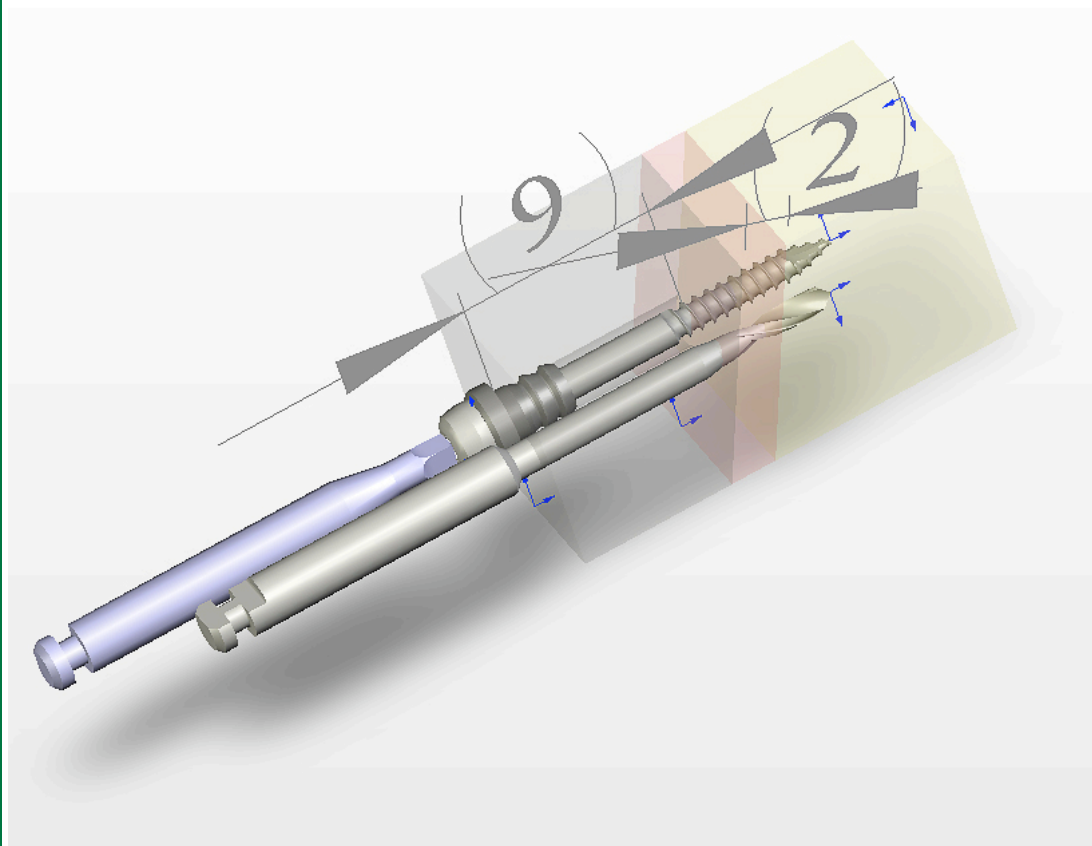
Drill for the fixing screw

Fixing screw

Screwdriver for the fixing screw

Fixing pin

Sterilizing cartridge



Plastic base of the guide

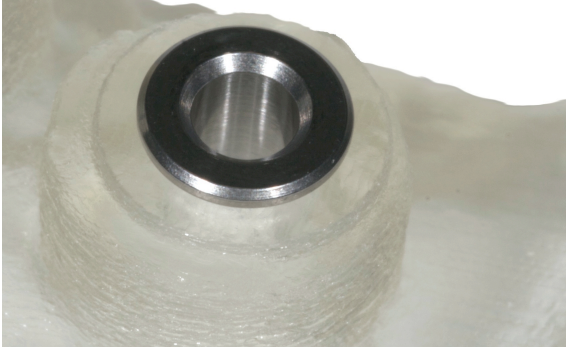


The virtual model of the Implant-Guide is made in the Implant Assistant Guide software on the basis of a treatment plan that has been proposed by the dentist and a choice of implants, fixing screws, drills with drill stops and guiding sleeves that have been recorded in the Implant-Assistant Planner project.

The Implant-Guide's virtual model file is sent for prototyping. The plastic base for the Implant-Guide is made on Objet 3D printers, which allow models to be made with an accuracy of 0.01mm. After cleaning the model as recommended by the manufacturer, the titanium sleeves that holds the information on place, location and depth of drilling are pressed into it.

Due to the high accuracy of model fabrication process, adhesives are not used at all.

Guiding sleeves



The sleeves are made of titanium alloy; Ti-6Al-4V ELI brand.

The bore of standard guiding sleeves is 2.2 mm, the diameter of the sleeve for fixing screws is 1.5mm.

It is possible to choose and install sleeves of different sizes. There are sleeves for Nobel Guide as well as DENTSPLY Friadent ExpertEase. The location of the sleeve inside the guide is determined by the implant location or by the fixing screw.

The choice of drill affects the height of sleeve location inside the guide.

Drills with drill stopper

By moving the drill along the axis of the implant, the depth of drilling is defined in the Implant-Assistant Planner software after arranging the implants. There are three-flute drills with stopper ring distances of 12, 14, 16, 18, 20, 22, 24, and 26mm and a diameter of 2.2mm. They are labeled as follows:

- 12mm drill – grey ring with number 12
- 14mm drill – yellow ring with number 14
- 16mm drill – crimson ring with number 16
- 18mm drill – blue ring with number 18
- 20mm drill – grey ring with marker and number 20
- 22mm drill – yellow ring with marker and number 22
- 24mm drill – crimson ring with marker and number 24
- 26mm drill – blue ring with marker and number 26.



Advantages of using Implant-Guide®

- Considerable reduction in surgery period.
- Exact installation of implants in the pre-planned position.
- Safe surgery.
- More stable post-operative period.
- High esthetic and functional result.

Drill for the fixing screw

Diameter is 1.2mm. The drilling is carried out through proper sleeves up until the drill stops.



Fixing screw

Diameter is 1.5 mm, length is 17mm. The Implant-Guide is attached to the jaw by screws through proper sleeves. The place and location for fixing the screw is chosen in the Implant-Assistant Planner software. The screws should be installed within the boundaries of the X-ray-guide.



Screwdriver for the fixing screw

The screwdriver is intended for tightening the screws using a right-angle handpiece. It is possible to use this for manual tightening.



Fixing pin

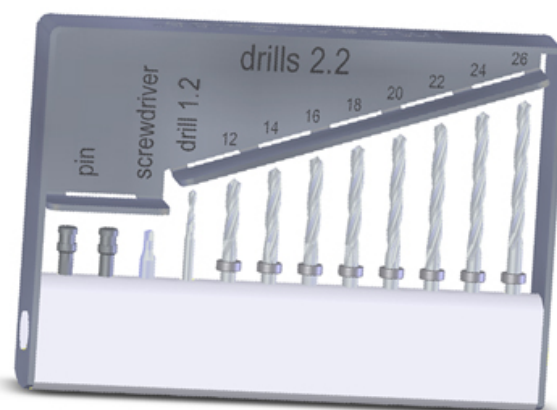
It is used when the probability of Implant-Guide displacement is high, especially during drilling of holes inside cortical lamina of high density that is situated at a sharp angle to the axis of drilling.



Sterilizing cartridge

The cartridge is intended for storing, transportation and sterilization of drills, screwdriver and fixing pins.

The cartridge is ergonomic: finding the drill of the required length is simplified.



Recommendation for Implant-Guide[®] use

Implant-Assistant[®]

If there are sleeves for fixing screws in the guide, then they are used to drill the holes until the drill stops after positioning of the guide.

If the bone tissue has a low density, then it is enough to drill only cortical lamina.

For the mucosa support Implant-Guide it is highly recommended to use fixing pins, even after the fixing screws have been installed.

The first holes for implants are drilled where the bone cortical lamina is flat and perpendicular to the axis of drilling. Fixing pins there are put into these holes to



augment the stability of the guide. Then the rest of holes are drilled.

The drilling of holes must be performed with interrupted

movements that allow the cold sterile saline to cool the drill, guiding sleeve, and bone tissue, as well as remove bone shavings.

Test Implant-Guide[®]

You can order the Implant-Guide for your patient even if you are not yet using Implant-Assistant software in your practice. [Download memo "Test Implant-Guide"](#).



Implant-Assistant[®]

*Implant-Assistant team
wishes you successful
surgeries!*