

mis[®] M GUIDE

STEP-BY-STEP GUIDED SURGICAL PROCEDURE
FOR SEVEN IMPLANTS



LOGICAL LAYOUT:

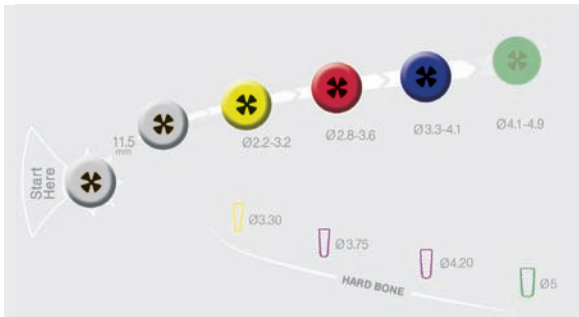
1 Example: Implant Ø4.20 / 11.5L ; Soft Bone



Ø4.20 / 11.5L



2 Example: Implant Ø4.20 / 11.5L ; Hard Bone



Ø4.20 / 11.5L



PRE-SURGICAL STEPS

1



VERIFICATION

The package includes:

- A surgical template
- Documentation; including information specific to each planned implant.



Prior to surgery: Ensure that guide, plan and documentation are all made according to the doctor's specifications, and for the current patient.

2



INITIAL TRY-IN

It is essential to Try-In the template in the patient's mouth, prior to surgery. Correct seating and stability of the template must be confirmed.



In rare cases, minor adjustments may be required.

3

10
min.



DISINFECTION

The MGUIDE MORE Template is shipped non-sterile. Therefore, the Template must undergo disinfection prior to use.

IMPORTANT: Completely immerse in a 0.2% Chlorhexidine solution for 10 minutes at room temperature prior to surgery.



CAUTION! DO NOT AUTOCLAVE.



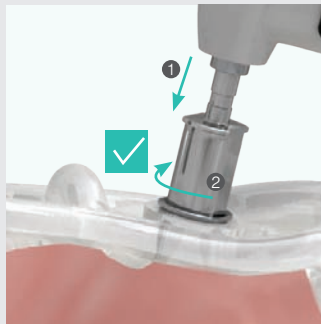
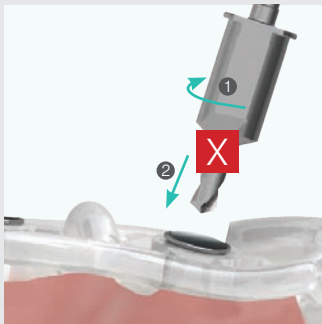
PRECAUTIONS

General

- All MGUIDE MORE drills and instruments are for use ONLY with the MGUIDE MORE surgical Template.
- Metal sleeves must be firmly attached to the Template.
- Inspect all instruments prior to each surgery and replace if broken or dull.
- Ensure cooling of cutting instruments with sterile saline solution.
- Tissue Punch is NOT equipped with built-in stoppers.

Handling

- Hold the Template firmly while drilling.
- Avoid lateral pressure on the instruments, as it may result in a shift in Template position, detachment of Sleeves from the Template or damage to instruments.
- Use an 'in-out' motion while drilling, slowly inserting the Drill until the built-in stopper touches the Sleeve.
- Do not over-tighten implant insertion tools and Fixation Pins. This may result in a shift in Template position or damage to the Template.



Cutting instruments must NOT rotate during insertion into or removal from Sleeves (see figure).



FIXATION PINS (When Applicable)



MG-DFF20
MGUIDE drill for fixation pin, Ø2mm



MG-FP020
MGUIDE fixation pin, Ø2mm

FIXATION PINS

MGUIDE MORE Fixation Pins are recommended for use in fully edentulous cases or if Template stability cannot be guaranteed.

- ! Fixation Pins may ONLY be used when included in the MGUIDE MORE surgical plan and when pin location is guided by the Template • Template MUST be verified in position, and held firmly prior to drilling • Use the MG-DFF20 drill ONLY! Drill until stopper touches the sleeve.

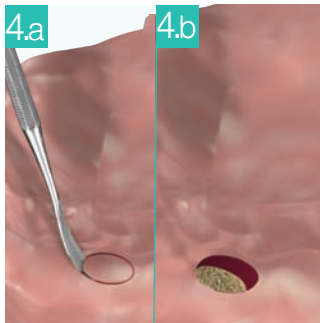
TISSUE PUNCH



TISSUE PUNCH

The Tissue Punch creates a round cut beneath the sleeve. This marks the implant position.

! Leave at least 2mm of attached gingiva around each implant site. Tissue Punch tools DO NOT have built-in stoppers.

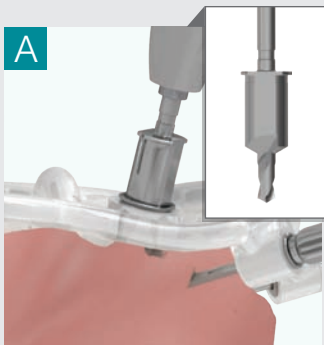


TISSUE REMOVAL

Remove the Template, then manually remove punched gingiva.

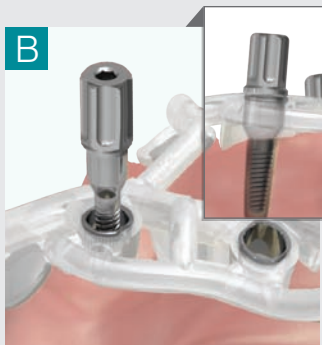


BONE ANCHOR OSTEOTOMY (When Applicable)



STARTER DRILL

Anchoring Screws MG-TAS55 are used to vertically secure the Template into an **osteotomy** created by the Starter Drill MG-D0624.



ANCHORING

Anchor Screws should be placed manually. If needed, secure screws using a Ratchet until stopper touches the sleeve.



Do not over tighten screws, as this may cause damage to the Template.



DIRECT RATCHET INSERTION TOOL (When Applicable)

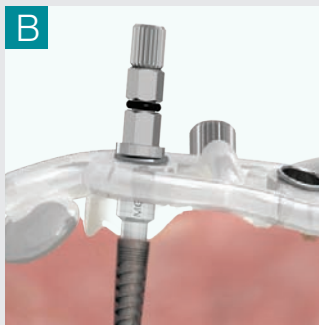
A



DIRECT INSERTION TOOL

The Direct Insertion Tool MG-GRI01 or MG-GRN01, is used to vertically secure the Template into the placed [implant](#).

B



DIRECT INSERTION TOOL

The Direct Insertion Tool should be attached to the implant manually prior to implant placement. It should remain connected to the implant until the implant placement procedure has been completed and then removed manually.



This option is valid only if the implant has significant primary stability.



Do not over tighten the Direct Insertion Tool, as this may cause damage to the Template.



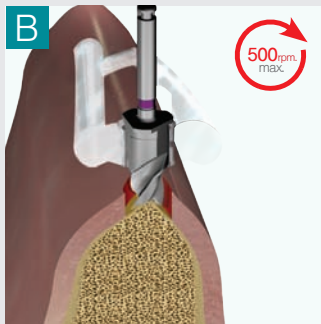
BONE MILL (When Applicable)



BONE MILL

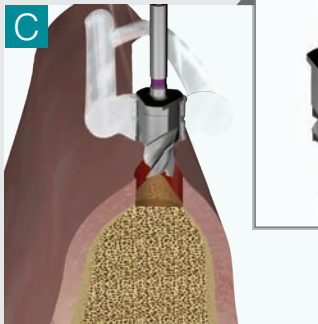
The Bone Mill is designed to flatten the alveolar ridge, when needed, prior to drilling.

! Use of a Bone Mill should be part of the planning stage.



BONE MILL

Bone Mill tools have a built-in stopper



BONE MILL

Built-in stopper is used for depth control. The surgical plan is a guide to show bone reduction required by the Bone Mill.

DRILLING SEQUENCE

Built-in Stopper and Centering Mechanism: All MGUIDE MORE rotary drills are designed to engage a guide sleeve for correct function. Drills and tools **MUST** engage the sleeve before contra-angle is activated. Follow drill sequence based on the planned diameter and length of each implant and the bone type.

Bone Type \ Ø	Ø3.30	Ø3.75	Ø4.20	Ø5
Soft Bone	● ●	● ● ●	● ● ● ●	● ● ● ● ●
Hard Bone	● ● ●	● ● ● ●	● ● ● ● ●	● ● ● ● ● ●

● ● ● ● ●
Implant Procedure Hard
Bone Ø4.20X11.5L

All drills are color-coded and laser marked to ensure the correct length is used.

Key to code use:

- Starter Drill
- Guided Pilot Drill
- Guided Conical Drill for implant Ø3.30 (6-13mm)
- Guided Conical Drill for implant Ø3.75 (6-13mm)
- Guided Conical Drill for implant Ø4.20 (6-13mm)
- Guided Conical Drill for implant Ø5 (6-13mm)

5



The Starter Drill should also be used to evaluate bone hardness. Select sequence path based on implant length, diameter, and bone type.

Soft Bone drilling requires a shortened procedure.

IMPLANT INSERTION OPTION

6.a



OR

By Motor:
Guided Motor Insertion Tool (MG-GMI10).

6.b



OR

By Ratchet:
Guided Ratchet Insertion Tool (MG-GRI10).



SAFETY TOOL

6.c



By Hand:
Guided Direct Ratchet Insertion Tool (MG-GRI01).

i For Narrow implants, use
Insertion Tool MG-GRN01.

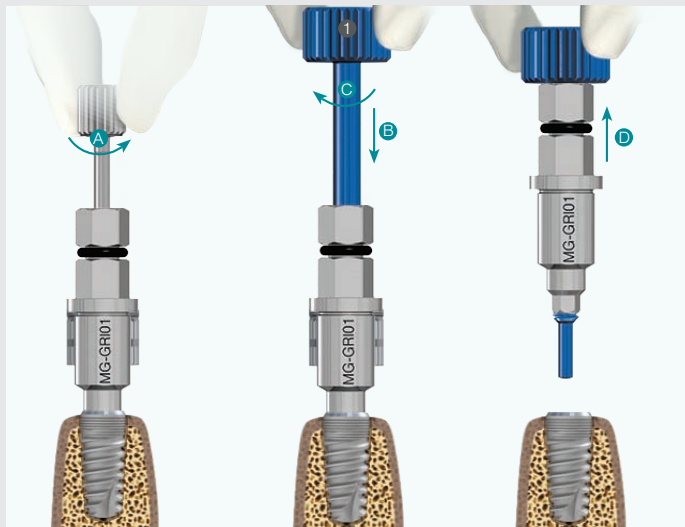


The Guided Drill Length Gauge (MG-DLG55),
verifies drill length and can be used before,
during and after surgery.

i Taking Measurements: Place drill stopper in
contact with the gauge. Measure to the drill tip.



EXTRACTOR



MGUIDE MORE SET FOR SEVEN IMPLANT PROCEDURE




MGUIDE MORE
Tool Kit for
Internal Hex
Implants


MGUIDE MORE Drill
Kit for SEVEN
Implants

Extractor can be used to release the Direct Insertion Tool, in cases of excess friction.

Extraction Procedure:

- A** Unscrew Pin
 - B** Insert Extractor Tool
 - C** Turn clockwise to release
 - D** Pull up to remove
- 1** Guided Insertion Tool Extractor, int. hex. MG-IE172

 For Narrow implants use insertion tool MG-IE160

Key to code used:

 Batch Code

 Catalog Number

 Manufacturer

Non Sterile

 Attention, see instructions for use



The surgical kit can be fully sterilized using pre-vacuum autoclave at 132°C (270°F) for 4 minutes.

After mechanical or manual cleaning, all surgical instruments must be sterilized in an autoclave at 134°C (273°F), pressure of ~315 Kpa for 6 minutes. Do not exceed 134°C. Never use dry sterilizers.



MIS Implants Technologies Ltd.
P.O.Box 7, Bar Lev Industrial Park,
2015600, ISRAEL
Website: www.mis-implants.com



EC REP

0483
refers to
drills only

MIS Implants Technologies GmbH
Simeonscarre 2, 32423 Minden,
Germany
Tel: +49 571-972-7620
Email: service@mis-implants.de

mis[®]

MIS Implants Technologies Ltd.
www.mis-implants.com



www.mis-implants.com

The MIS Quality System complies with international quality standards: ISO 13485:2003 – Quality Management System for Medical Devices, ISO 9001:2008 – Quality Management System and CE Directive for Medical Devices 93/42/EEC. MIS products are cleared for marketing in the USA and CE approved.