The MIS Quality System complies with international quality standards:
- ISO 13485:2016 – Quality Management System for Medical Devices
- CE Medical Device Directive 93/42/EEC.
After each use, the ratchet wrench's adapter should be removed and direct insertion tools should be disassembled prior to cleaning. Reassembly prior to sterilization is required.

**EXTRACTION PROCEDURE**

A. Assembled
B. Loosen the screw (counter clockwise)
C. Removal of assembly

Key to codes used:
- Batch code
- Catalog number
- Manufacturer
- Non-sterile

- MGUIDE Template should be used within 3 months from CBCT scan date.
- For cleaning and sterilization instructions, please refer to the 'Cleaning and Maintenance Instructions for Surgical Instruments' included.

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

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

Example: C1 Implant Ø4.20 / 11.5L; Soft Bone

Start Here

13 mm

11.5 mm

Ø4.20 / 11.5L
Example: Implant C1 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.

2. KITS REQUIRED
The kit selection is marked on the MGUIDE box label.

- Prior to surgery: Ensure that surgical template, plan and documentation are all made according to the doctor’s specifications, and for the relevant patient.
DISINFECTION

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

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

- WARNING! Do not autoclave. Steam sterilization will deform the template.

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, as well as sufficient space for surgical tools.

In order to avoid incorrect seating due to patient’s anatomy change. MGUIDE Template should be used within 3 months from CBCT scan date. No changes shall be made to the oral cavity unless discussed with the MCENTER.

- In rare cases, minor adjustments may be required.
PRECAUTIONS

GENERAL

▪ All MGUIDE drills and instruments are for use ONLY with the MGUIDE 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.
▪ The MGUIDE Kit to be used, is marked on the MGUIDE Box label.

HANDLING

▪ Hold the template firmly while drilling.
▪ Drills and tools MUST engage the sleeve before contra-angle is activated.
▪ 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.
Drills and tools MUST engage the sleeve before contra-angle is activated.
FIXATION PINS

(When applicable)

MG-DFP20
MGUIDE drill for fixation pin, Ø2mm

MG-FP020
MGUIDE fixation pin, Ø2mm

FIXATION PINS

MGUIDE 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 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-DFP20 drill ONLY! Drill until stopper touches the sleeve.
TISSUE PUNCH

The tissue punch creates a round cut beneath the sleeve. This marks the implant position.

TISSUE REMOVAL

Remove the template, then manually remove punched gingiva.

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

BONE MILL USE
A flat surface allows for a better approach for the starter drill, therefore increasing the accuracy for the rest of the drilling sequence.

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 STOPPER

A built-in stopper is used for depth control. Bone mill drills have a built-in stopper.
BONE ANCHOR OSTEOTOMY

(When applicable)

STARTER DRILL

Anchor screws are used to vertically secure the template into an osteotomy created by the starter drill MG-D0624.

max. 600 rpm

ANCHORING

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

<table>
<thead>
<tr>
<th>Ø5.5mm sleeve</th>
<th>Ø4mm sleeve</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG-TAS55</td>
<td>CG-NTAS0</td>
</tr>
</tbody>
</table>

- Do not over-tighten screws, as this may cause damage to the template.
PROCEDURE

<table>
<thead>
<tr>
<th>Drilling Speed (RPM)</th>
<th>400-600</th>
<th>400-600</th>
<th>200-400</th>
<th>15-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>Ø2.40</td>
<td>Ø2.40</td>
<td>Ø2.30</td>
<td>Ø3.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ø2.35</td>
<td>Ø2.90</td>
</tr>
</tbody>
</table>

- Do not use the last drill for bone types 3&4.
- The drilling sequence is demonstrated by a 11.5mm C1 implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.
## PROCEDURE

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</tr>
<tr>
<td></td>
<td>Ø2.30</td>
<td>Ø3.25</td>
</tr>
<tr>
<td></td>
<td>Ø2.90</td>
<td>Ø3.85</td>
</tr>
<tr>
<td></td>
<td>Ø3.40</td>
<td>Ø4.25</td>
</tr>
<tr>
<td>Ø4.20/Ø4.30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Do not use the last drill for bone types 3&4.
- The drilling sequence is demonstrated by a 11.5mm C1 implant.
- Procedure recommended by MIS cannot replace the judgment and professional experience of the surgeon.
IMPLANT INSERTION

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.

STABILIZATION

The direct insertion tool may be used to stabilize the MGUIDE.

- Do not over-tighten the direct insertion tool, as this may cause damage to the template.
IMPLANT INSERTION OPTIONS

BY MOTOR
Recommended for initial implant placement.

<table>
<thead>
<tr>
<th>Ø5.5mm sleeve</th>
<th>Ø4mm sleeve</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG-GMS10</td>
<td>CG-NMS10</td>
</tr>
<tr>
<td>CG-GMN10</td>
<td>CG-NMN10</td>
</tr>
<tr>
<td>CG-GMW10</td>
<td>VG-NMN10</td>
</tr>
<tr>
<td>VG-GMN10</td>
<td></td>
</tr>
</tbody>
</table>

BY RATCHET
Orientation adjustment may be achieved only after template removal.

<table>
<thead>
<tr>
<th>Ø5.5mm sleeve</th>
<th>Ø4mm sleeve</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG-GRS10</td>
<td>CG-NRS10</td>
</tr>
<tr>
<td>CG-GRN10</td>
<td>CG-NRN10</td>
</tr>
<tr>
<td>CG-GRW10</td>
<td>VG-NRS10</td>
</tr>
<tr>
<td>VG-GRS10</td>
<td>VG-NRN10</td>
</tr>
<tr>
<td>VG-GRN10</td>
<td></td>
</tr>
</tbody>
</table>
The guided drill length gauge (MG-DLG55), verifies drill length and may be used before, during and after surgery.

### SAFETY TOOL

BY RATCHET - DIRECT

In cases where additional stability is required for the template.

<table>
<thead>
<tr>
<th>Ø5.5mm sleeve</th>
<th>Ø4mm sleeve</th>
</tr>
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<tbody>
<tr>
<td>CG-GRS01</td>
<td>CG-NRS01</td>
</tr>
<tr>
<td>CG-GRN01</td>
<td>CG-NRN01</td>
</tr>
<tr>
<td>CG-GRW01</td>
<td>VG-NRN01</td>
</tr>
<tr>
<td>VG-GRN01</td>
<td></td>
</tr>
</tbody>
</table>

- Taking measurements: Place drill stopper in contact with the gauge. Measure to the drill tip.
DIRECT RATCHET DISASSEMBLY

A

B

C
After each use, the ratchet wrench’s adapter should be removed and direct insertion tools should be disassembled prior to cleaning. Reassembly prior to sterilization is required.

EXTRACTION PROCEDURE

- A Assembled
- B Loosen the screw (counter clockwise)
- C Removal of assembly

When assembling, tighten screw by hand only.

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MGUIDE KITS FOR CONICAL CONNECTION IMPLANTS

MGUIDE Tools Kit for Conical Connection Implants

MGUIDE Drills Kit for Conical Connection Implants