IMPLANT REMOVAL PROTOCOL

This document applies to all TBR dental implants.

Non-osseointegrated implant

It is the clinician's responsibility to assess the degree of osseointegration of the implant at the time of removal.

1. Instruments required for the removal of non-osseointegrated implants

For the removal of non-osseointegrated TBR dental implants, a Swissclip implant driver corresponding to the implant range to be removed, as well as the TBR torque wrench, both present in surgical kits 8 and M, should be used.

Designation	*Infinity* kit	8 kit	M kit	References	Preview
Short screwdriver SwissClip implant driver for torque ratchet wrench - 8 Range	✓	✓		A-MCC163	
Long screwdriver SwissClip implant driver for torque ratchet wrench - 8 Range	✓	✓		A-MCC258	
Short SwissClip implant driver for torque ratchet wrench - M Range			✓	A-MCC159	
Long SwissClip implant driver for torque ratchet wrench - M Range			✓	A-MCC254	
Torque wrench	✓	✓	✓	GAN-469-1000203	

2. Instructions for use

1. Take the Swissclip implant driver for the torque wrench.
2. Connect the Swissclip implant driver for the torque wrench to the implant in its housing.
3. Position the torque wrench in the «ratchet» position on the Swissclip implant driver.
4. Slowly unscrew the implant by applying a counterclockwise rotational force.
5. Then remove the implant using the Swissclip implant driver and discard it.

Osseointegrated implant

1. Instruments required for the removal of osseointegrated implants

For the removal of osseointegrated TBR dental implants, a trephine drill for contra-angle, and dental forceps.

Ensure that the depth of the internal drilling performed by the trephine drill for the contra-angle, while considering potential anatomical obstacles, is longer than the total length of the implant to be removed. Otherwise, full immersion of the trephine drill into the bone is not possible.

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Ensure that the diameter of the trephine drill for the contra-angle is compatible with the diameter of the TBR implant to be removed.

Note: For TBR Z1 implants, choose the trephine drill for the contra-angle according to the diameter of the zirconia collar of the implant (4.4 mm / 5 mm / 6 mm).

Refer to the table below to check the compatibility of implant diameters and the internal diameters of the trephine drill to be used:

Ø BL implant (mm)	Internal Ø trephine drill (mm)
Connect Ø 3.5 Implant (3.65 real)	Ø 3.8 minimum
Connect Ø 4 Implant	Ø 4.2 minimum
Connect Ø 5 Implant	Ø 5.2 minimum
Infinity Ø 3.5 (3.8 real) Implant	Ø 4 minimum
Infinity Ø 4 Implant	Ø 4.2 minimum
Infinity Ø 5 Implant	Ø 5.2 minimum
M Ø 3.2 Implant	Ø 3.8 minimum
M Ø 3.9 Implant	Ø 4.2 minimum
M Ø 4.7 Implant	Ø 5.2 minimum

Ø Baby implant (mm)	Internal Ø trephine drill (mm)
Baby 8 Ø 4 Implant	Ø 4.2 minimum
Baby 8 Ø 5 Implant	Ø 5.2 minimum
Baby M Ø 3.9 Implant	Ø 4.2 minimum
Baby M Ø 4.7 Implant	Ø 5.2 minimum

Ø Z1 implant (mm)	Ø zirconia collar (mm)	Internal Ø trephine drill (mm)
Z1-Connect Ø 3.5 Implant	Ø 5	Ø 5.2 minimum
Z1-Connect Ø 4 Implant	Ø 5	Ø 5.2 minimum
Z1-Connect Ø 5 Implant	Ø 6	Ø 6.2 minimum
Z1-Infinity Ø 3.5 Implant	Ø 4.4	Ø 4.6 minimum
Z1-Infinity Ø 4 Implant	Ø 5	Ø 5.2 minimum
Z1-Infinity Ø 5 Implant	Ø 6	Ø 6.2 minimum
ZM Ø 3.2 Implant	Ø 4.4	Ø 4.6 minimum
ZM Ø 3.9 Implant	Ø 5	Ø 5.2 minimum
ZM Ø 4.7 Implant	Ø 6	Ø 6.2 minimum

2. Instructions for use

It is recommended to use a guide screw screwed into the implant to serve as a visual axis indicator. The length of this guide screw should be determined according to the length of the trephine drill used.

1. Use the trephine drill along the axis of the implant to be removed, irrigating abundantly to prevent overheating of the bone.

2. Make slow back-and-forth movements while regularly checking the axis and depth using the markings on the trephine drill.

3. Use dental forceps to grasp the guide screw while applying slight lateral movements.

4. Remove the implant and discard it.

If necessary, a bone graft material can be placed to preserve the structure for future implants or other treatments.