MECTRON PIEZOSURGERY®
MANUAL PIEZO LIFT FOR CRESTAL SINUS ELEVATION

SIMPLIFIED AND PREDICTABLE

new!

mectron

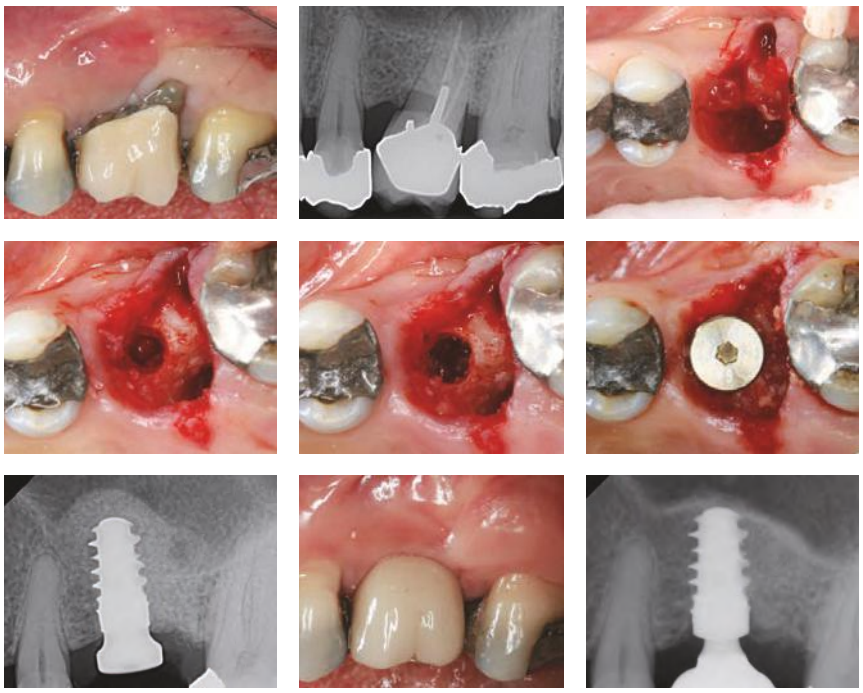
CRESTAL SINUS LIFT COMBINING MANUAL AND PIEZOSURGERY® TECHNIQUE HIGHER SAFETY AND PRECISION

The most crucial part of the crestal sinus lift is to access the sinus floor and to elevate the Schneiderian membrane without perforation.

PIEZOSURGERY® is well known for it's protection of soft tissue including the Schneiderian membrane. Combining the benefits of osteotomes and PIEZOSURGERY® can lead to precise sinus lift surgery.

A set of 4 inserts, developed with the support of Dr. Edgar El Chaar, New York, allows the gentle removal of bone from the sinus floor. A bone ring is left with intact Schneiderian membrane, which then can be gently lifted with osteotomes.

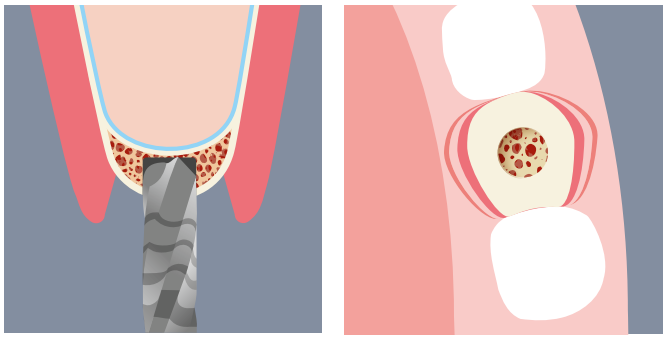
CASE REPORT - POST-EXTRACTIVE SINUS ELEVATION AND IMPLANT PLACEMENT



After extracting the tooth, the osteotomy was prepared up to the last one needed for the specific diameter of the selected implant, in this case a Straumann BLX 5.0 mm. Based on the quality of the bone the last drill was 3.7 mm. The sinus floor perforation was performed with the PIEZOSURGERY® insert PL0631 remaining at the same time a bony ring which prevents the osteotomes from accidentaly perforating the Schneiderian membrane. Using an osteotome of 3.2 mm the bone graft was inserted and the Schneiderian membrane elevated.

Finally before placing the implant the bony ring was removed using the side cutting insert PL0419.

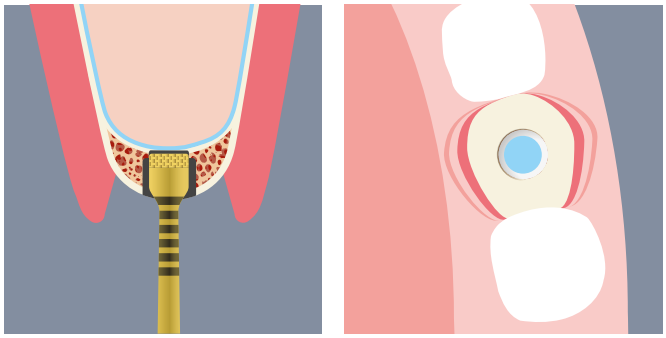
MANUAL PIEZO LIFT STEP-BY-STEP



1 SINUS FLOOR APPROACH

Using the sequence of the surgical kit from the implant system, the site is prepared according to the size of the implant to be inserted, reaching 1 mm below the Schneiderian membrane.

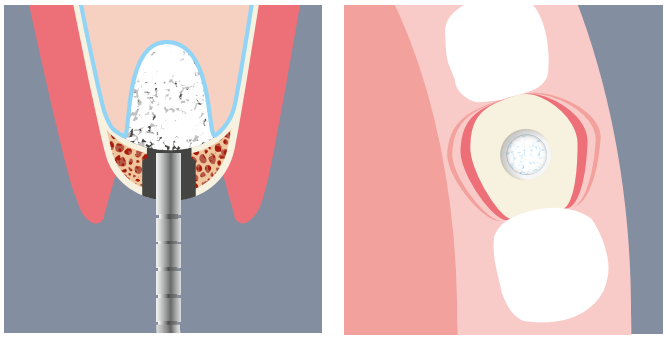
In case of highly mineralized bone:
use the PIEZOSURGERY® insert IM3P to further consume the cortical of the sinus and approach the membrane, and then proceed with step 2.



2 SINUS FLOOR REMOVAL AND MEMBRANE DETACHMENT

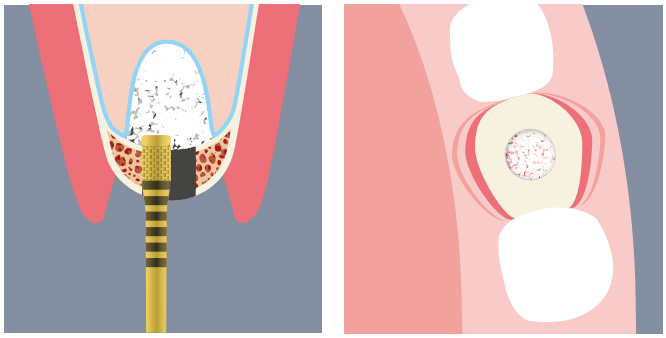
The central part of the sinus floor is removed with PIEZOSURGERY® insert until it reaches the membrane, leaving a “safety” bone ring.

For implant sites with a diameter up to 3.5 mm
use PL0419 (Ø=1.9 mm) and/or PL0527 (Ø=2.7 mm)
→ remaining bone ring sizes 0.8 mm or 0.4 mm
For implant sites with diameter larger than 3.5 mm
use PL0631 (Ø=3.1 mm) → remaining bone ring size 0.45 mm (in case of 4 mm implant site)



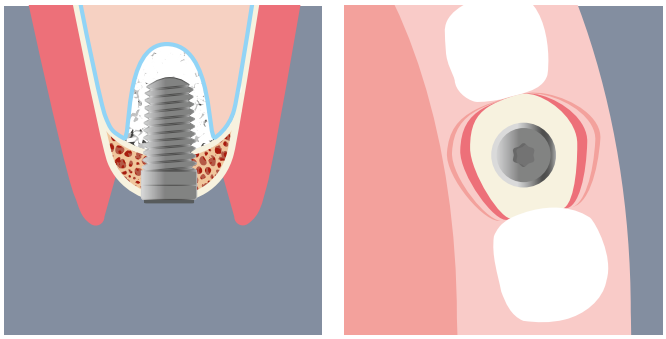
3 SINUS LIFT AND BONE GRAFTING

We proceed to the introduction of biomaterial and the detachment of the sinus membrane through the use of manual osteotomes. During this procedure the bone ring guarantees a minimally invasive approach to the membrane, reducing the risk of perforating.



4 SAFETY BONE RING REMOVAL

Using the PIEZOSURGERY® insert PL0719 (Ø=1.9 mm) it’s possible to remove the bone ring.



5 IMPLANT PLACEMENT

Place the implant using the surgical kit from the Implant System.

MANUAL PIEZO LIFT - THE INSERTS IN DETAIL

INSERT PL0419
ref. no. 03370030

Sinus floor removal and membrane detachment for implant sites up to 3.5 mm

INSERT PL0527
ref. no. 03370031

Sinus floor removal and membrane detachment for implant sites up to 3.5 mm

INSERT PL0631
ref. no. 03370032

Sinus floor removal and membrane detachment for implant sites bigger than 3.5 mm

INSERT PL0719
ref. no. 03370033

Removal of the bone ring

MANUAL PIEZO LIFT SET
ref. no. 01520026

EQUIPPED WITH
1 insert PL0419
1 insert PL0527
1 insert PL0631
1 insert PL0719
1 insert tray

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