

Smile 3 Distractor

Surgical procedure

Sequence of the surgery

1. Corticotomies: lateral + midline (+ posterior disjunction)
2. Placement of the Smile 3 Distractor with self-drilling screws between teeth n° (14)-15-16 and (24)-25-26

SP-021 Rev. B

INCISION



A cross palatal incision or an L-incision, between premolar and molar or between premolars has shown to be the ideal location.

The incision is made 1 cm downwards as indicated on the picture.

PLACEMENT PLATES



Drill hole

After the flap preparation a hole is drilled in the palatal cortex with a 3.1 mm round bur (14IRS/031 HP) 2-3 mm deep.

Please check the bone quality of the patient before considering to use the Smile 3 Distractor.



Form stamp

The form stamp (IT0311 right side and IT0312 left side) is pushed manually and vertically in the cup hole. Slight hammer taps can be helpful in adults.



IT0311

IT0312



Abutment placement

The abutment plate is placed in the same **vertical** direction as the form stamp, with the screw hole away from the teeth.

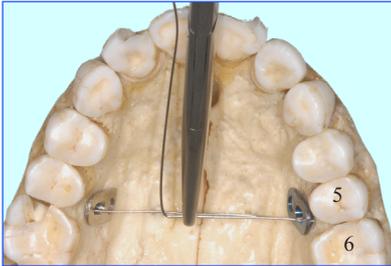
The plates must be fixed to the palatal bone with a self-drilling screw on each side (DSSA06 or DSSA07 - screwdriver IT0315).



IT0315

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The correct size of the distractor is measured with an iron wire or caliper.

In order to avoid losing potential expansion space, it is recommended to apply the biggest module size possible.

A minimum palatal distance of 10 mm is necessary to place the smallest Smile 3 Distractor size.



Blue mark ALWAYS to the left!

One side of the Smile Distractor is inserted in his abutment sleeve (blue side is left!).

Then the distractor holder (IT0313) is positioned over the opposite wing sustaining slight opposite pressure.



At the time of the placement, the wings of the distractor need to be completely and equally screwed in/out, in order to avoid losing potential expansion space.

The Smile Distractor must be fixed with an iron wire to a tooth for safety reasons.



MEASUREMENT

PLACEMENT MODULE

Keep in mind:

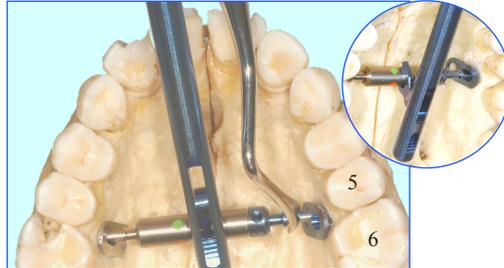
1. The wings of the distractor can be turned completely loose of the distractor module. There is no automatic stop.
2. The Smile Distractor must be fixed with an iron wire to a tooth for safety reasons.
3. A minimum palatal distance of 10 mm is necessary to place the smallest Smile 3 Distractor size.
4. Please check the bone quality of the patient before considering to use the Smile 3 Distractor.



Smile 3 Distractor

Surgical Procedure

ACTIVATION

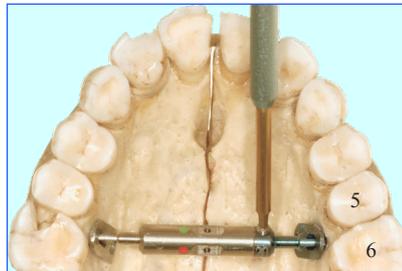


The surgeon must activate the Smile Distractor until the two front teeth have an opening of ± 1 mm. To do this, place the key instrument (IT0314) over the middle part of the distractor body and turn from the front to the back.



IT0314

BLOCKING SCREW



The blocking screw (D002) is placed in one of the two available threaded holes with the screwdriver (IT0128). Place the blocking screw perpendicular over the cylinder, with a clear view of the screw hole. The blocking screw should be fixed real firm, using wrist force.



IT0128

Sequence of the distraction

1. **Surgery:** see above
2. **Activation period:** One week after the surgery the activation of the Smile Distractor is started. Remove the blocking screw and expand until bone resistance is felt, then turn once or twice more. During activation (1 to 2 weeks) the patient should turn two times a day a quarter of a turn; this is about 0.5 mm opening per day. At each quarter of a turn a new colour appears.
3. **Consolidation period:** After the activation period put the blocking screw back real firm, using wrist force. Place a tampon in case the blocking screw should drop. The distractor needs to stay in place 3 to 6 months.

Tip: Patient information available on www.titamed.com.