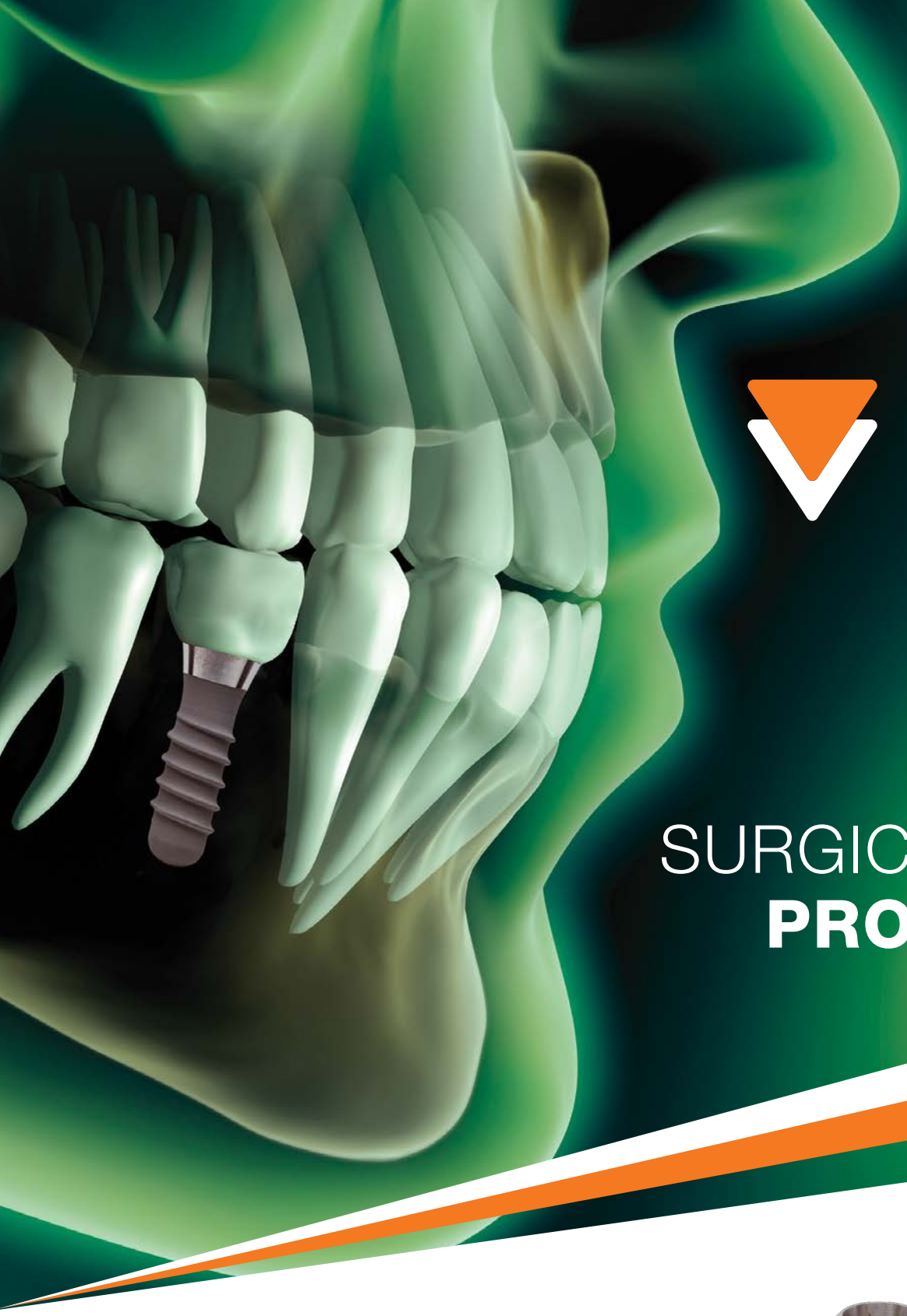


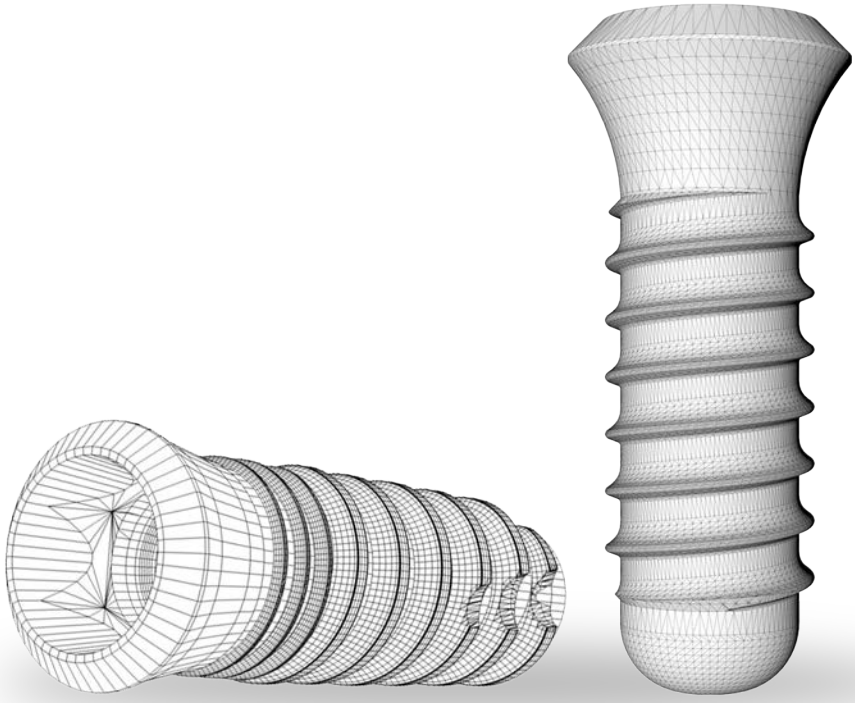
MEISINGER
IMPLANTS

SURGICAL **PROTOCOL**

OKTAGON®
TISSUE LEVEL

MEISINGER
IMPLANTS

OKTAGON®
TISSUE LEVEL
IMPLANT PLACEMENT PROTOCOL



This guideline describes most important steps for the surgical treatment and procedure for the OKTAGON® implant system. It is assumed that the user is intensely familiar with implantology.

- The user is obliged to use the product according to the application and safety instructions for implants of Meisinger Implants GmbH
- A sterile environment must be provided
- Always use cooling agent when drilling
- When used intraorally, make sure that the instruments are secured against aspiration or falling down
- Further information can be found on https://meisingerimplants.com

OKTAGON® TL | IMPLANT SITE PREPARATION

TISSUE LEVEL RP | Implant Ø 3.3 mm

Step 1 – Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection.

Step 3 – Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594) can also be used.*

Step 4 – Drilling the Pilot Hole

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 – Check Parallel Alignment and Depth

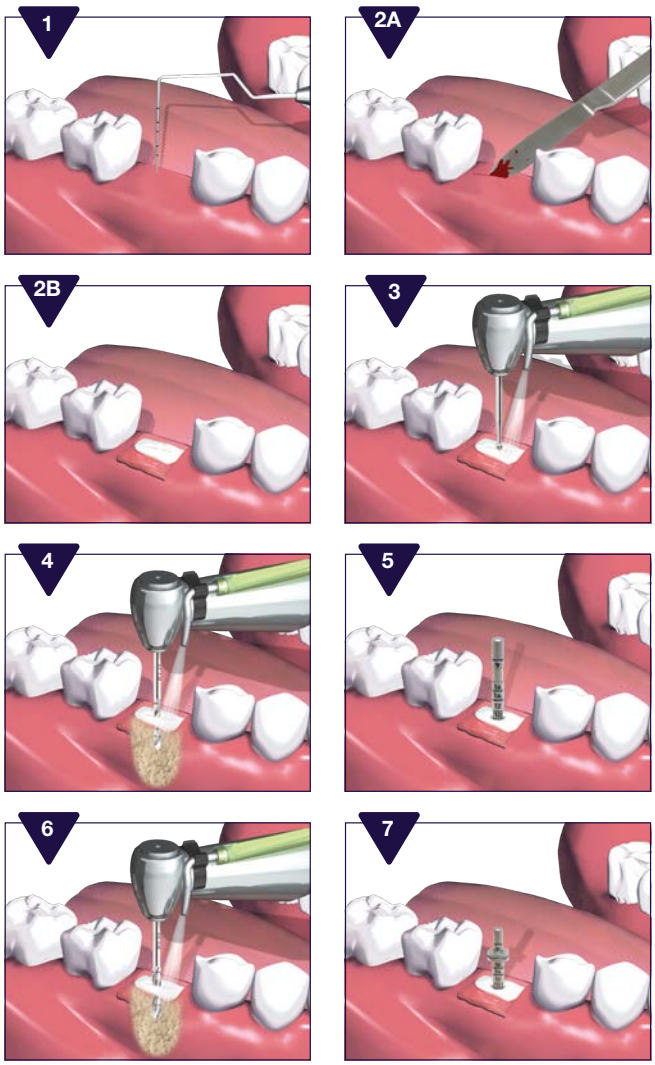
Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 – Drill for all Implant Diameters

Select the Ø 2.8 mm twist drill *(Ref. 38149)*. Drill to appropriate implant length at a maximum speed of 600 rpm.

Step 7 – Check Depth

Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.

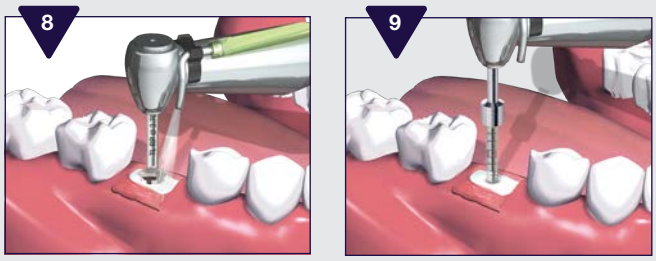


Step 8 - Profile Drill

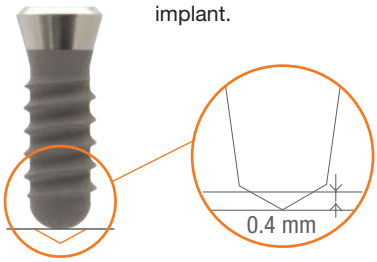
When drilling in dense bone, select the Ø 3.3 mm profile drill *(Ref. 38137)* for the implant being placed.

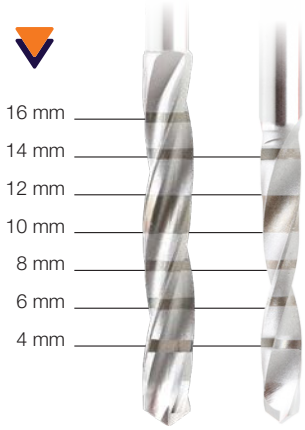
Step 9 - Bone Tap

Use the Ø 3.3 mm bone tap *(Ref. 95270)* at a maximum speed of 15 rpm. For dense bone the tap must be used.



The tips of the twist drills Ø 2.2/2.8 mm have an apical overlength (up to 0.4 mm) compared to the insertion depth of the implant.





TISSUE LEVEL RP | Implant Ø 3.75 mm

Step 1 - Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection

Step 3 - Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594) can also be used*.

Step 4 - Drilling the Pilot Hole

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 - Check Parallel Alignment

Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 - Drill

Select the Ø 2.8 mm twist drill *(Ref. 38149)*. Drill to appropriate implant length at a maximum speed of 600 rpm.

Step 7 - Check Depth

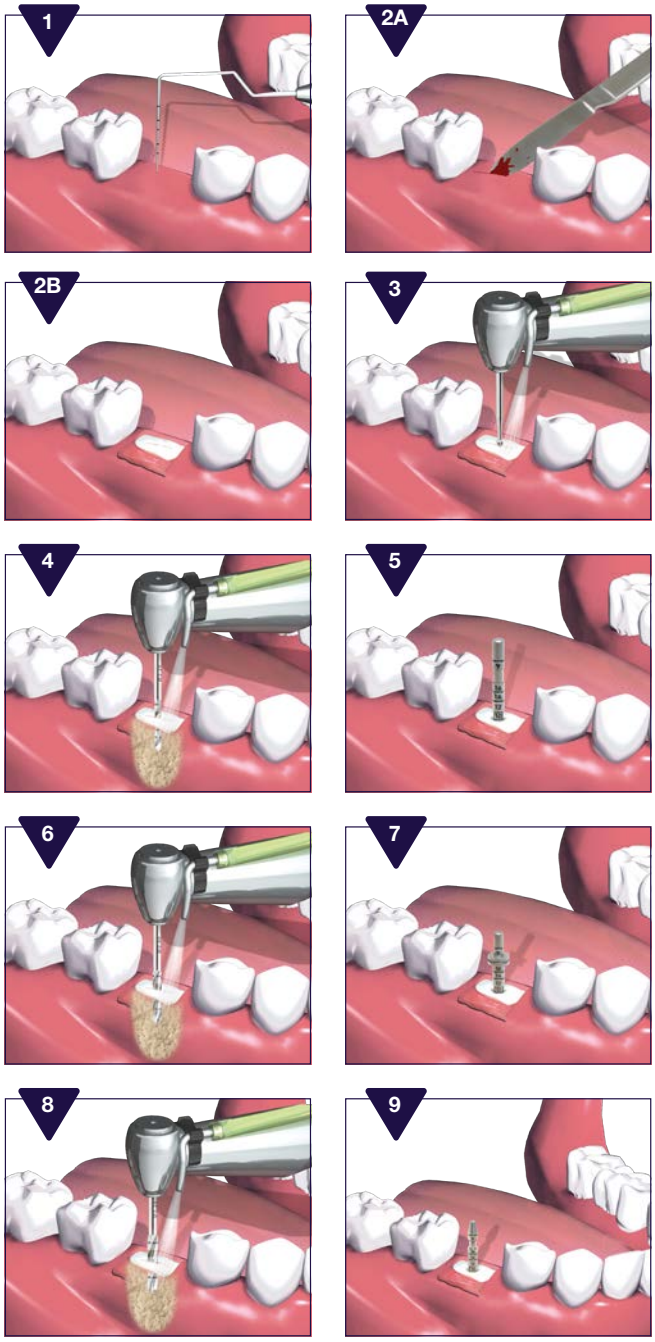
Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.

Schritt 8 - Drill

Select the Ø 3.25 mm twist drill *(Ref. 38130)*. Drill to appropriate implant length at a maximum speed of 500 rpm.

Step 9 - Check Depth

Confirm the appropriate drill depth with the Ø 3.25 mm depth gauge *(Ref. 64568)*.

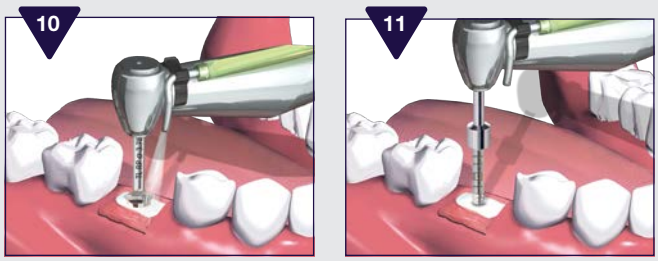


Step 10 - Profile Drill

Use the profile drill Ø 3.75 mm (*Ref. 38132*) at a maximum speed of 300 rpm to shape the coronal part of the implant bed.

Step 11 - Bone Tap

Use the Ø 3.75 mm bone tap *(Ref. 38134)* at a maximum speed of 15 rpm. For dense bone the tap must be used.



OKTAGON® TL | IMPLANT SITE PREPARATION

TISSUE LEVEL RP | Implant Ø 4.1 mm

Step 1 - Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection

Step 3 - Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594) can also be used.*

Step 4 - Drilling the Pilot Hole

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 - Check Parallel Alignment

Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 - Drill

Select the Ø 2.8 mm twist drill *(Ref. 38149)*. Drill to appropriate implant length at a maximum speed of 600 rpm.

Step 7 - Check Depth

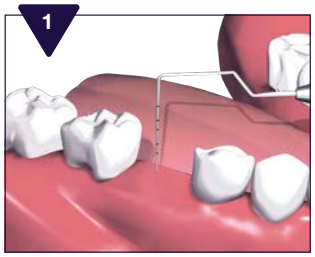
Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.

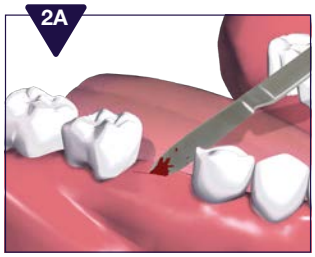
Step 8 - Drill

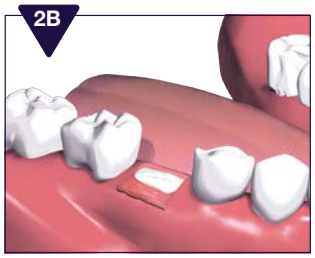
Select the Ø 3.5 mm twist drill *(Ref. 38135)*. Drill to appropriate implant length at a maximum speed of 500 rpm.

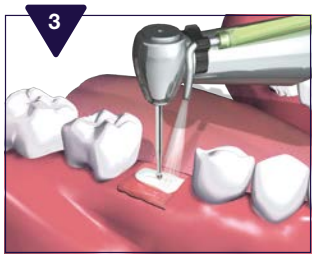
Step 9 - Check Depth

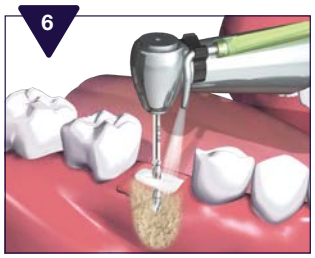
Confirm the appropriate drill depth with the Ø 3.5 mm depth gauge *(Ref. 64569)*.

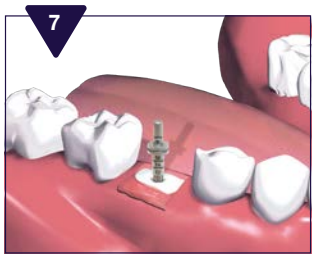


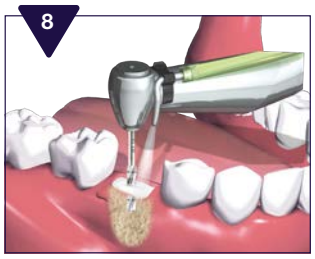










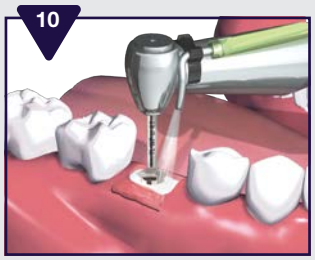


Step 10 - Profile Drill

Use the profile drill Ø 4.1 mm (*Ref. 38147*) at a maximum speed of 300 rpm to shape the coronal part of the implant bed.

Step 11 - Bone Tap

Use the Ø 4.1 mm bone tap *(Ref. 95271)* at a maximum speed of 15 rpm. For dense bone the tap must be used.



TISSUE LEVEL RP/WP | Implant Ø 4.8 mm

Step 1 - Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection

Step 3 - Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594) can also be used*.

Step 4 - Drilling the Pilot Hole

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 - Check Parallel Alignment

Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 - Drill

Select the Ø 2.8 mm twist drill *(Ref. 38149)*. Drill to appropriate implant length at a maximum speed of 600 rpm.

Step 7 - Check Depth

Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.

Step 8 - Drill

Select the Ø 3.5 mm twist drill *(Ref. 38135)*. Drill to appropriate implant length at a maximum speed of 500 rpm.

Step 9 - Check Depth

Confirm the appropriate drill depth with the Ø 3.5 mm depth gauge *(Ref. 64569)*.

Step 10 - Drill

Select the Ø 4.2 mm twist drill *(Ref. 38151)*. Drill to appropriate implant length at a maximum speed of 500 rpm.

Step 11 - Check Depth

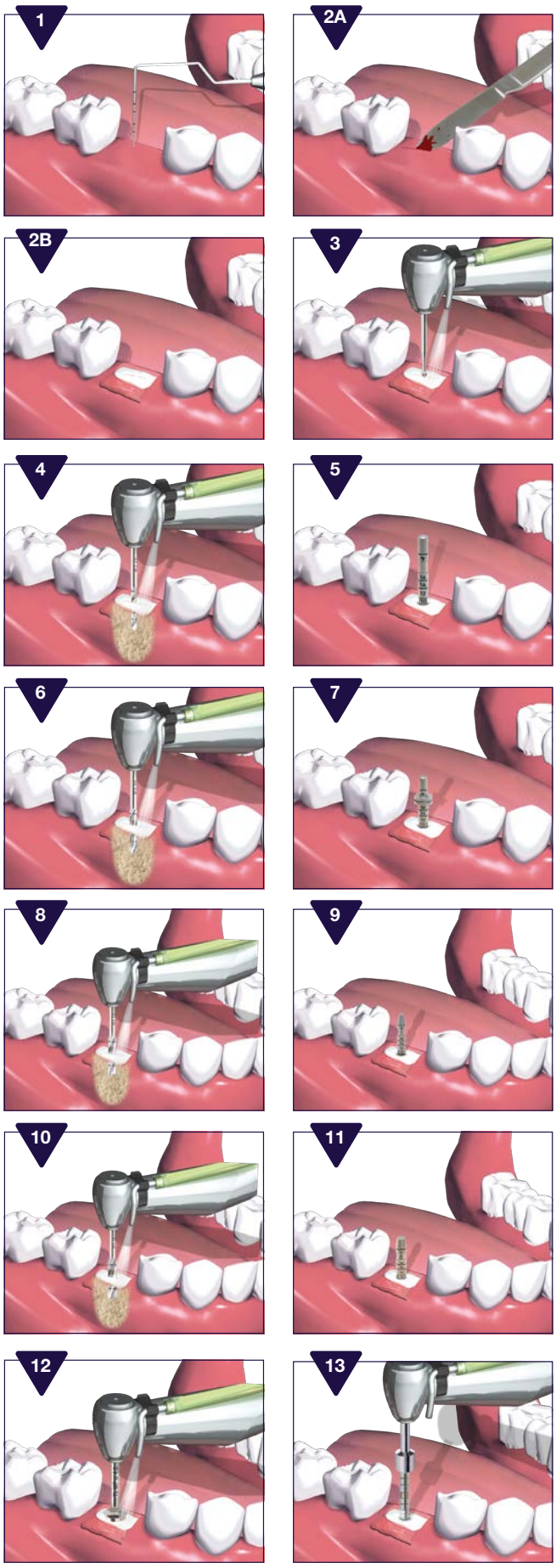
Confirm the appropriate drill depth with the Ø 4.2 mm depth gauge *(Ref. 64570)*.

Step 12 - Profile Drill

When drilling in dense bone, select the Ø 4.8 mm *(Ref. 93738)* for the implant being placed. The profile drill is not required for RP.

13 - Bone Tap

When drilling in dense bone, select the Ø 4.8 mm bone tap *(Ref. 95272)*.



OKTAGON® TL | IMPLANT SITE PREPARATION

TISSUE LEVEL RP CONICAL | Implant Ø 4.1 mm

Step 1 - Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection

Step 3 - Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594)* can also be used.

Step 4 - Drilling

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 - Check Parallel Alignment

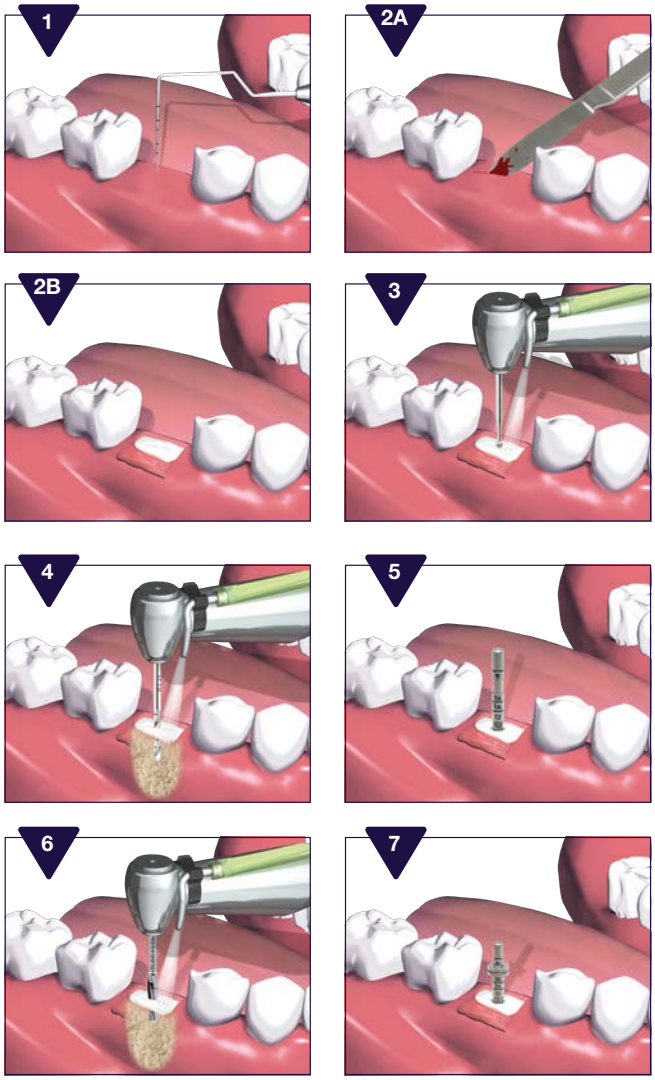
Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 - Drill

Select the specially made twist drill for the CONICAL Implant with the corresponding length of the implant. Drill to the depth marking on the drill at a maximum speed of 500 rpm.

Step 7 - Check Depth

Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.



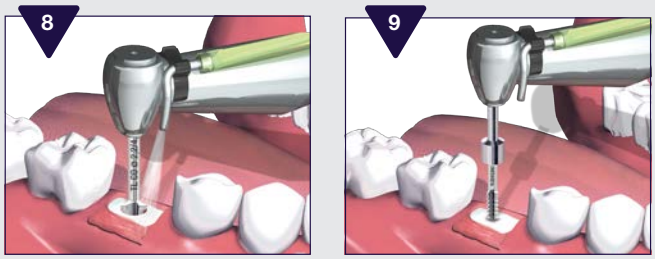
IMPORTANT The twist drills and the taps must be used in accordance with the implant length.

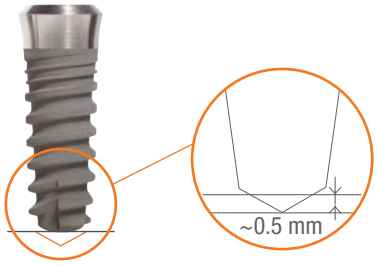
Step 8 - Profile Drill

Use the profile drill Ø 4.1 mm (*Ref.* 38153) at a maximum speed of 300 rpm to shape the coronal part of the implant bed.

Step 9 - Bone Tap

Use the Ø 4.1 mm bone tap corresponding to the implant length for the implant to be placed at a maximum speed of 15 rpm. For dense bone the tap must be used.





TISSUE LEVEL RP TAPERED | Implant Ø 4.1 mm

Step 1 - Type of Implant

Prior to drilling it is important to select the type of implant and the tissue depth using a tissue probe.

Step 2A/2B - Preparing the Surgical Site

Make an incision and reflect a flap assuring the alveolar crest is free for a visual inspection

Step 3 - Marking the Implant Site

When needed use the Ø 2.2 mm round bur *(Ref. 31061)* with a maximum speed of 800 rpm and use cooling agent to mark the initial osteotomy.
Optional the Ø 1.54 mm pilot drill *(Ref. 11594) can also be used*.

Step 4 - Drilling the Pilot Hole

Pre-drill the initial osteotomy to a wished depth using the Ø 2.2 mm twist drill (Ref. 38120) at a maximum speed of 800 rpm.

Step 5 - Check Parallel Alignment

Confirm the appropriate angle with the Ø 2.2 mm parallel pin *(Ref. 64566)*, angular osteotomy corrections can be made during the following drilling step.

Step 6 - Drill

Select the Ø 2.8 mm twist drill *(Ref. 38149)*. Drill to appropriate implant length at a maximum speed of 600 rpm.

Step 7 - Check Depth

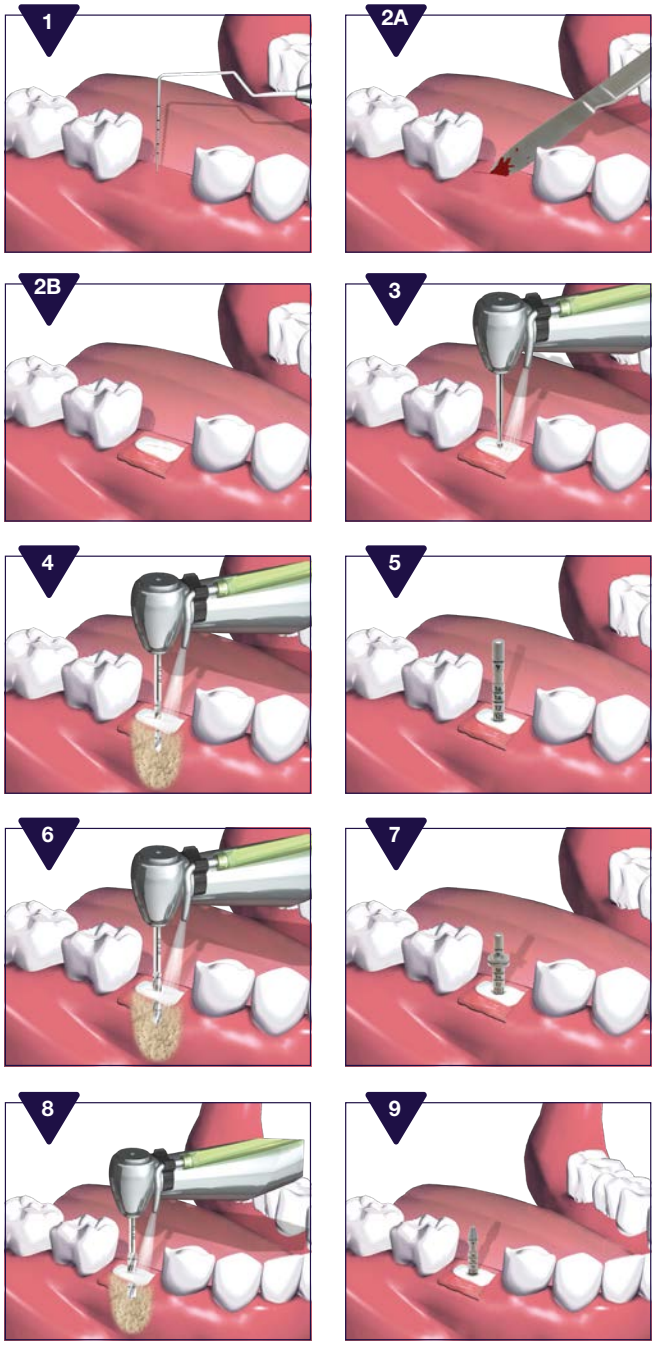
Confirm the appropriate drill depth with the Ø 2.2/2.8 mm depth gauge *(Ref. 64567)*.

Step 8 - Drill

Select the Ø 3.5 mm twist drill *(Ref. 38135)*. Drill to appropriate implant length at a maximum speed of 500 rpm.

Step 9 - Check Depth

Confirm the appropriate drill depth with the Ø 3.5 mm depth gauge *(Ref. 64569)*.



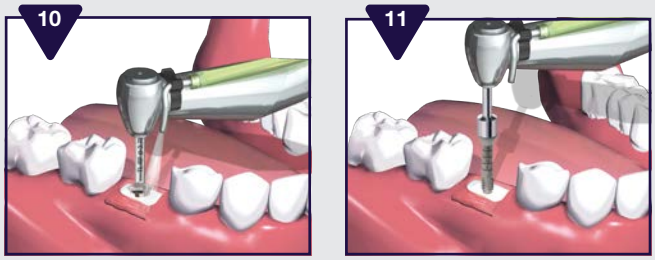
FOR DENSE BONE

Step 8 - Profile Drill

When drilling in dense bone, select the Ø 4.1 mm profile drill *(Ref. 38147)* for the implant being placed.

Step 9 - Bone Tap

When drilling in dense bone, select the Ø 4.1 mm bone tap *(Ref. 95271)*.



OKTAGON® TL | LOADING IMPLANT ONTO DRIVER

Step 1 - Implant Package

Remove the sealed blister pack from the outer packaging. Open the blister pack by peeling off the sealed film.

Step 2 - Adapter Selection

Place the adapter (manual or machine) on the silver transfer part until a clicking sound is heard.

Step 3 - Releasing the Implant

Remove the implant from the ampoule by turning it counterclockwise. The adapter (manual or mechanical) can be used for this purpose.

Step 4 - Removing the Implant

Hold the ampoule horizontally and carefully remove the implant from the ampoule.

Please refer to instructions manual! Do not resterilize For single-use only

OKTAGON® TL | PLACING IMPLANT INTO OSTEOTOMY

Step 1 - Implant insertion

Insert the implant into the prepared implant bed at a speed of 15 rpm and a maximum insertion torque of 35 Ncm.

To avoid excessive compression of the bone, do not exceed the insertion torque of 35 Ncm.

Step 2 - Placing the implant

Insert the implant until the implant surface is completely positioned in the bone ridge.

If the implant is not inserted correctly, the implant can be turned out of the implant bed again. After this, a further preparation of the implant bed is possible.

Step 3 - Removing the Adapter

After insertion, the adapter can be detached from the implant by an axial upward movement.

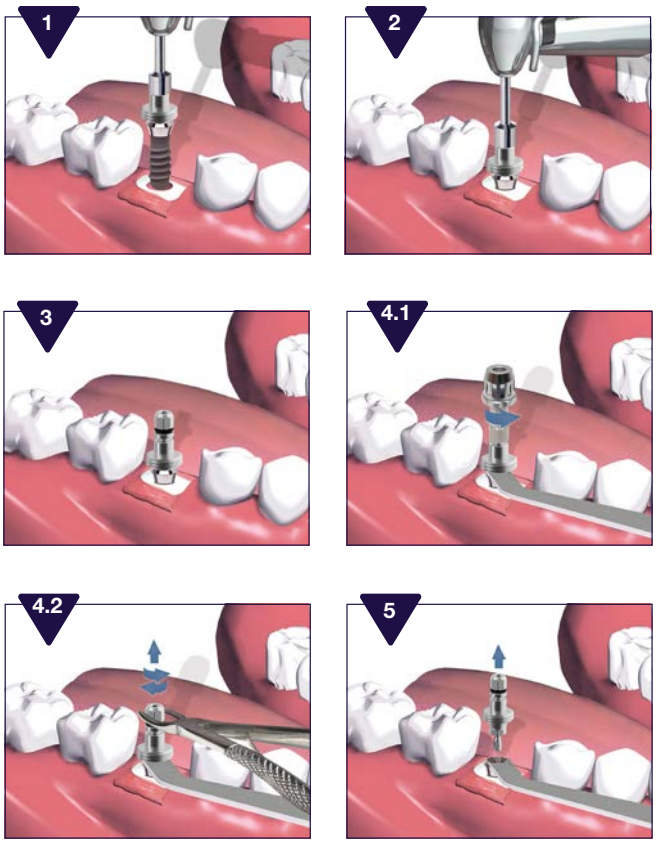
Step 4 - Loosening the transfer part

To avoid any force on the jawbone, it is recommended to use a specific release key *(TL RP/WP Ref. 64565)* to help loosen the silver transfer part. It is recommended to first loosen the silver transfer part using the adapter (Fig. 4.1) by moving it horizontally or turning it back slightly.

In case of higher insertion torques, it is recommended to loosen the silver transfer part (fig. 4.2) with the help of the adapter or a tong by moving it horizontally or turning it back slightly.

Step 5 - Removing the transfer part

The silver transfer part can now be released by an axial upward movement of the adapter or the tong.



OKTAGON® TL | 48 HOUR EXPLANTATION TOOL

IMPORTANT

This tool can only be used when the blue transfer part is removed.

Place the 48h tool correctly in the implant connection. Secure the tool with the integrated screw to prevent internal damage of the implant!

Now the tool can be used to remove the implant or reposition it by turning counter clockwise or clockwise when the implant should be deeper.

TL RP/WP
(Ref. 64548)

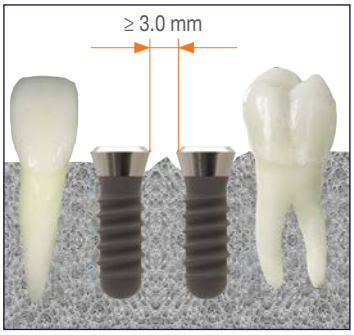
TL RP/WP
(Ref.64549)

Implant Position

When placing the implant, the dentist should observe standard rules of implantology.

At least 1.5 mm of bone around the implant and at least 3 mm of bone between two implants must be taken into account to maintain a vital bone structure.

After implant placement, the implants should be surrounded by a facial and palatal bone layer of min. 1.0 mm.



OKTAGON® TL | SINGLE-STAGE HEALING OPTION

Step 1 – Healing Abutment

Select out of the different healing abutments the right diameter (tooth position of the implant) and gingival height to create the right emergence profile.

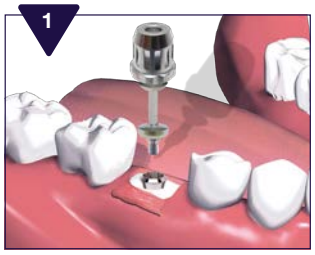
Step 2 – Placement

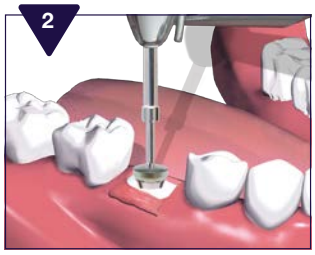
Make sure the inner side of implant is clean (no blood residues).

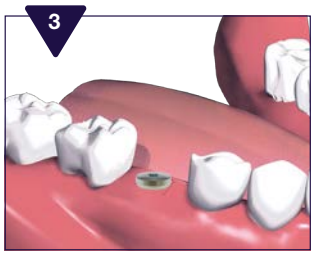
Place the healing abutment with max. 15 Ncm (hand tight) on the implant with the screwdriver or screwdriver for hand piece.

Step 3 – Close the flap

Suture flap around the healing abutment.







OKTAGON® TL | TWO-STAGE HEALING OPTION

Step 1 – Cover screw

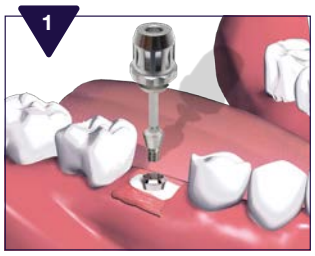
In the implant package is a sterile cover screw to use in the two-stage surgery.

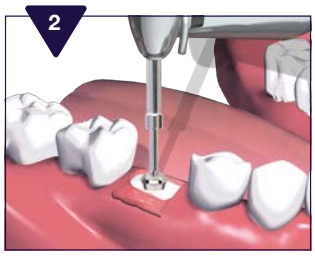
Step 2 – Placement

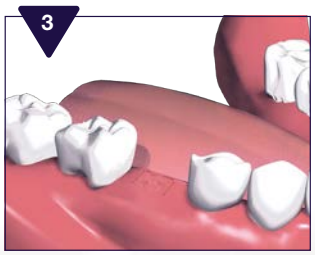
Make sure the inner side of implant is clean (no blood residues). Place the cover screw with max. 15 Ncm and prepare for closing the implant site.

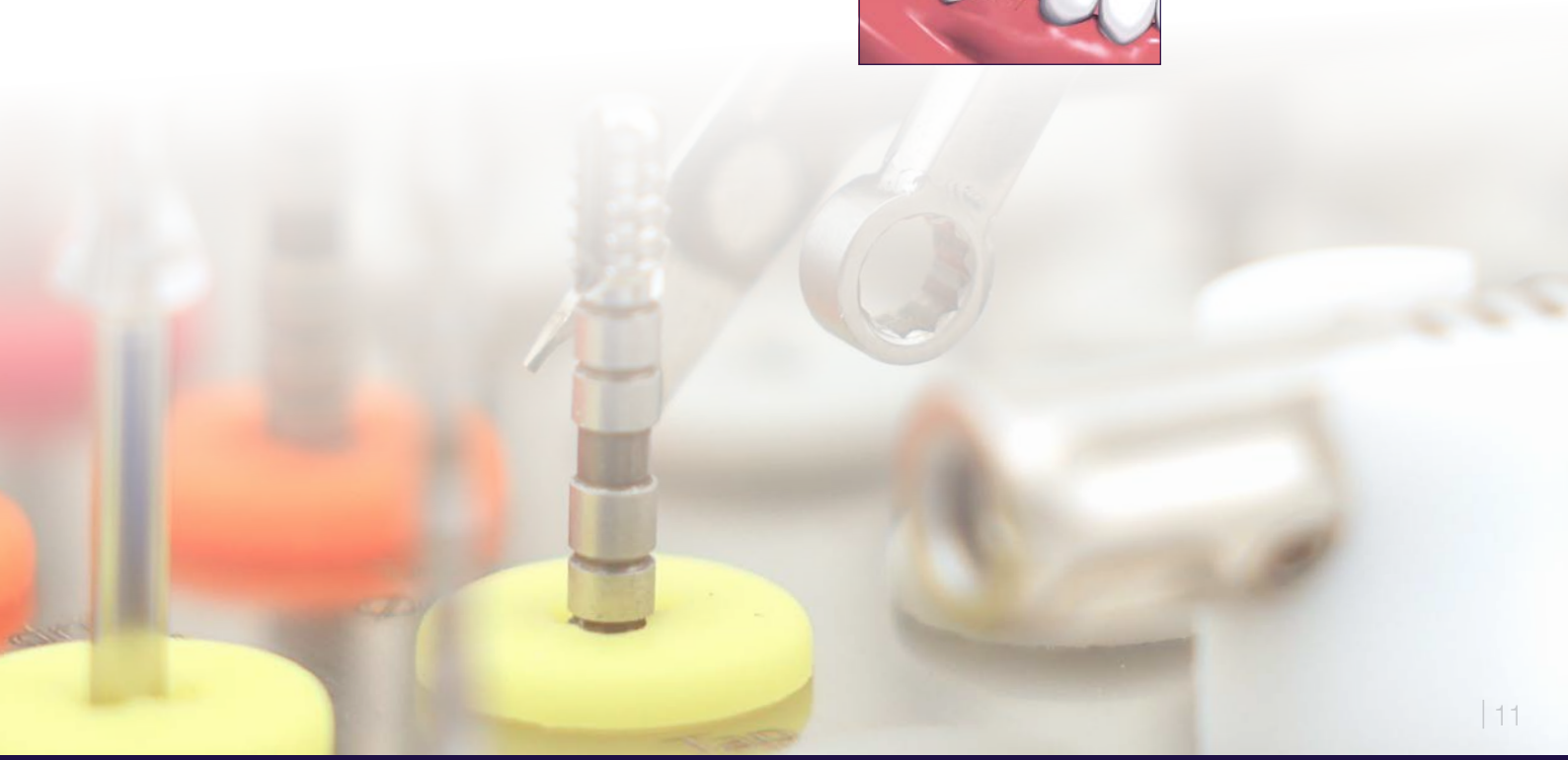
Step 3 - Osseointegration

Suture flap over cover screw. Allow soft tissue healing and implant integration.



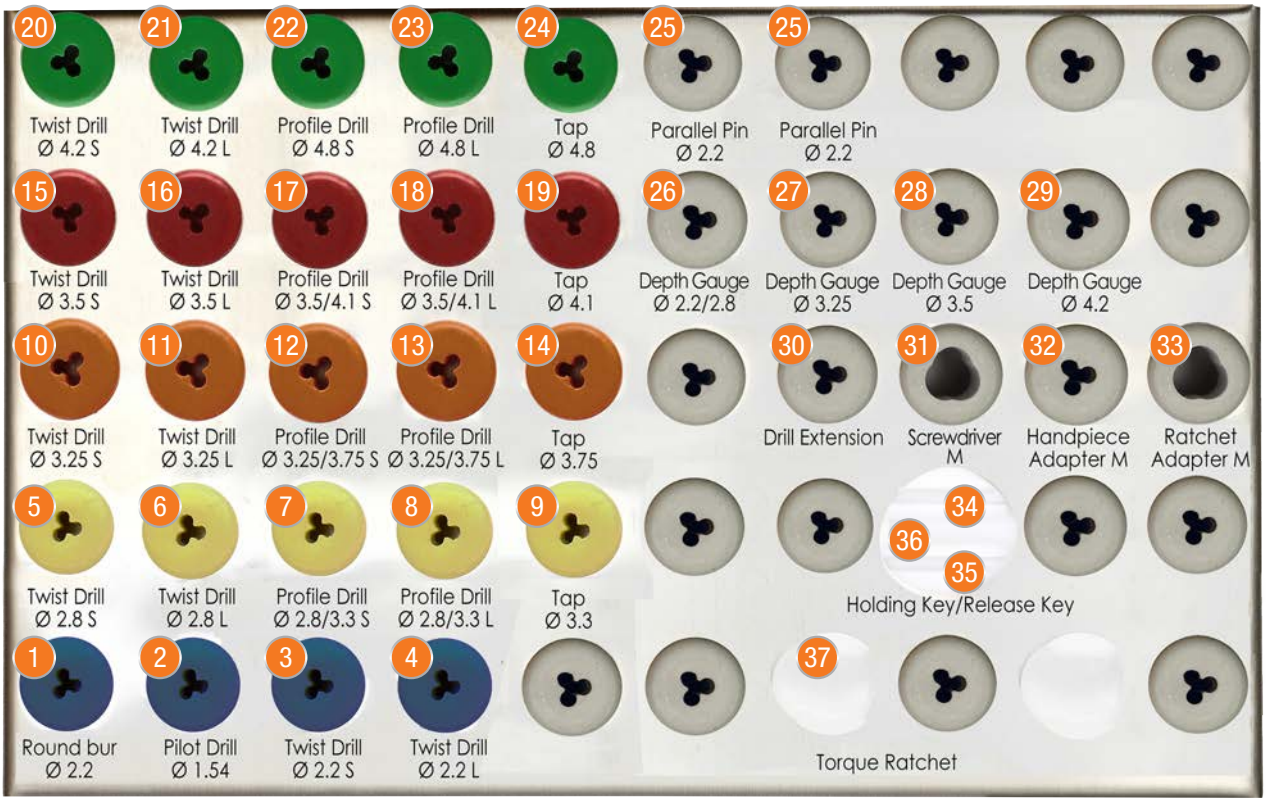






OKTAGON® *TL* ACCESSORIES | *SURGERY CASSETTE MINI*

REF. 82891



1	31061	TL/BL Round bur	Ø 2.2	L 34.0
2	11594	TL/BL Pilote drill	Ø 1.54	L 33.0
3	38120	TL/BL Twist drill	Ø 2.2	L 33.0
4	38121			L 41.0
5	38149	TL/BL Twist drill	Ø 2.8	L 33.0
6	38148			L 41.0
7	38137	TL RP Profile drill	Ø 3.3	L 25.0
8	37137			L 33.0
9	95270	TL RP Tap	Ø 3.3	L 23.0
10	38130	TL/BL Twist drill	Ø 3.25	L 33.0
11	38131			L 41.0
12	38130	TL RP Profile drill	Ø 3.75	L 25.0
13	38131			L 33.0
14	38134	TL RP Tap	Ø 3.75	L 23.0
15	38135	TL/BL Twist drill	Ø 3.5	L 33.0
16	38136			L 41.0
17	38147	TL RP Profile drill	Ø 4.1	L 25.0
18	37147			L 33.0
19	95271	TL RP Tap	Ø 4.1	L 23.0
20	38151	TL/BL Twist drill	Ø 4.2	L 33.0
21	38152			L 41.0
22	93738	TL WP Profile drill	Ø 4.8	L 25.0
23	92738			L 33.0
24	95272	TL RP Tap	Ø 4.8	L 25.0

25	64566	OKTAGON® Parallel pin	Ø 2.2	L 27.0
26	64567	OKTAGON® Depth gauge	Ø 2.2/2.8	L 27.0
27	64568	OKTAGON® Depth gauge	Ø 3.25	L 27.0
28	64569	OKTAGON® Depth gauge	Ø 3.5	L 27.0
29	64570	OKTAGON® Depth gauge	Ø 4.2	L 27.0
30	31050	TL/BL Drill extension		L 30.0
31	64551	Screwdriver one-piece		L 24.0
32	31056	Adapter for handpiece		L 19.0
33	64558	Adapter for ratchet		L 11.0
34	64564	TL BL NC Release key		
35	64565	TL RP/WP BL RC Release key		
36	64563	Holding key		
37	89048	Torque ratchet		

Example of Equipment

OKTAGON® *TL* ACCESSORIES | *DRILL-STOP-CONTROL SET*

38171		TL/BL DRILL-STOP-CONTROL SET Content: 1 of each article number 38160-38168 and 38170 *Not suitable for CONICAL and BLT implants; for Ø 3.75 mm implants only in combination with article 38159*			
38170		Pilot drill	Ø 1.8 mm	5 pcs.	L 34.0 mm
38160 38161 38162 38163		TL/BL Twist drill	Ø 2.0 mm Ø 2.8 mm Ø 3.5 mm Ø 4.2 mm		L 34.0 mm
38164 38165 38166 38167 38168		Drill sleeve			L 14.0 mm L 12.0 mm L 10.0 mm L 8.0 mm L 6.0 mm

OKTAGON® *TL* EXTENSIONS | *DRILL-STOP-CONTROL SET*

38158		TL/BL Twist drill	Ø 2.2 mm	L 34.0 mm
38159		TL/BL Twist drill	Ø 3.25 mm	L 34.0 mm
38172		Drill sleeve		L 4.0 mm

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FDA

Products with "510(k) clearance" on request.

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