

ESSENTIAL® CONE IMPLANT PLACEMENT

STEP BY STEP [RATCHET OR TORQUE WRENCH] PLACEMENT WITH FRICTION KEY

JDTWKLF	JDTORQUE® RATCHET WRENCH	10 07 02 L	LONG RATCHET WRENCH ADAPTER
JDTWKL	JDTORQUE® TORQUE WRENCH	10 07 02 XL	EXTRA LONG RATCHET WRENCH ADAPTER
10 07 02	RATCHET WRENCH ADAPTER		

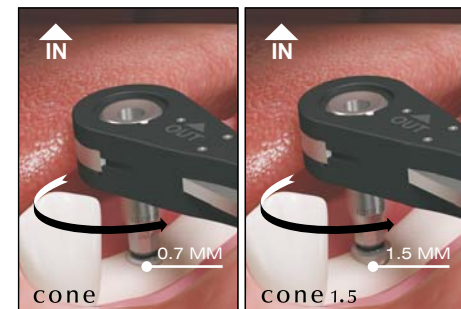


Once the transporter has been removed proceed to the final insertion of the implant.
Insert the adapter on to the implant.

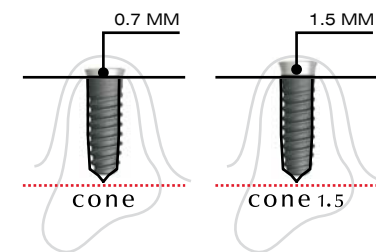
Fit the ratched or torque wrench to the adapter in such manner that the wrenche indicates the tightening position [IN].

WARNINGS

YOU MUST NOT START THE TAPPING MANEUVERS WITHOUT CHECKING THE CORRECT FIT OF THE IMPLANT TO THE RATCHET OR TORQUE WRENCH FRICTION KEY. IF THE INSERTION OF THE IMPLANT ENCOUNTERS RESISTANCE DUE TO HIGH DENSITY BONE CHANGE THE RATCHET OR TORQUE WRENCH DIRECTION TO COUNTER CLOCKWISE [OUT] UNTHREADING THE IMPLANT TWO TURNS. NEXT STEP IS TO CHANGE THE RATCHET WRENCH DIRECTION TO CLOCKWISE [IN] AND CONTINUE TAPPING. THIS WILL RELEASE BONE TENSIONS AND EASE THE TAPPING PROCEDURE. REPEAT THIS STEP AS MANY TIMES AS NECESSARY. NOT FOLLOWING SURGICAL SEQUENCE RECOMMENDATIONS CAN CAUSE DIFFICULTIES DURING THE INSERTION OF THE IMPLANT.



The implant must be inserted fully leaving the machined collar exposed.
0.7 mm in the case of Essential® Cone implants.
1.5 mm in the case of Essential® Cone 1.5 implants.



WARNINGS

NOT TO FOLLOW THE RECOMMENDATIONS OF THE SURGICAL SEQUENCE CAN CAUSE DIFFICULTY IN THE INSERTION OF THE IMPLANT.
PLEASE BEAR IN MIND THAT THE HAND WRENCH LACKS SPECIFIC CALIBRATION THAT MAY GENERATE EXCESSIVE FORCES THAT MAY DAMAGE THE IMPLANT'S AND INSTRUMENTS INTEGRITY. IT CAN ALSO PRODUCE ALVEOLAR BONE OVER-COMPRESSION LEADING TO OSSEOUS NECROSIS AND LOSS OF THE FIXTURE.
FORCED IMPLANT INSERTION MAY CAUSE:
- DAMAGE TO CONNECTION.
- DAMAGE TO IMPLANT PLACEMENT INSTRUMENTS.
- COLD WELDING OF THE INSTRUMENT TO THE IMPLANT.
- LACK OF OSSEOINTEGRATION DUE TO EXCESSIVE COMPRESSION OF THE RECIPIENT BONE.

STEP BY STEP [MOTOR DRIVEN] PLACEMENT WITH C/A FRICTION KEY

10 07 04	CONTRA-ANGLE WRENCH
10 07 04 L	LONG CONTRA-ANGLE WRENCH



Insert contra-angle wrench key and start final implant placement procedures.

WARNINGS

YOU MUST VERIFY THAT THE CONTRA-ANGLE CORRECTLY FITS THE KEY TO THE MOTOR UNIT. PLACEMENT PROCEDURES MUST NOT BE INITIATED UNTIL FIT TO IMPLANT IS CORRECT. TORQUE VALUES EXCEEDING 45 NCM MAY DAMAGE THE CONTRA-ANGLE AND KEY MOTOR UNIT. IF THE INSERTION OF THE IMPLANT ENCOUNTERS RESISTANCE DUE TO HIGH DENSITY BONE, CHANGE THE KEY MOTOR UNIT DIRECTION TO COUNTER CLOCKWISE UNTHREADING THE INITIATOR TWO TURNS. NEXT STEP IS TO CHANGE THE KEY MOTOR UNIT DIRECTION TO CLOCKWISE AND CONTINUE PLACEMENT. THIS WILL RELEASE BONE TENSIONS AND EASE THE TAPPING PROCEDURE. REPEAT THIS STEP AS MANY TIMES AS NECESSARY. NOT FOLLOWING SURGICAL SEQUENCE RECOMMENDATIONS CAN CAUSE DIFFICULTIES DURING THE INSERTION OF THE IMPLANT.



In cases of transmucosal implants or with difficult access, the laser engraving will provide visual aid to locate correctly the implant's platform.

essential

reference listing

10 35 08	ESSENTIAL CONE IMPLANT Ø 3.5 X 08 MM	10 02 01 T	LANCEOLATE DRILL [DS]
10 35 10	ESSENTIAL CONE IMPLANT Ø 3.5 X 10 MM	10 02 01 LT	LONG LANCEOLATE DRILL [DS]
10 35 12	ESSENTIAL CONE IMPLANT Ø 3.5 X 12 MM	10 02 02 T	STARTUP DRILL Ø 2.35 MM [DS]
10 35 14	ESSENTIAL CONE IMPLANT Ø 3.5 X 14 MM	10 02 02 LT	LONG STARTUP DRILL Ø 2.35 MM [DS]
10 40 08	ESSENTIAL CONE IMPLANT Ø 4.0 X 08 MM	10 02 03 T	PILOT DRILL Ø 2.8 MM [DS]
10 40 10	ESSENTIAL CONE IMPLANT Ø 4.0 X 10 MM	10 02 03 LT	LONG PILOT DRILL Ø 2.8 MM [DS]
10 40 12	ESSENTIAL CONE IMPLANT Ø 4.0 X 12 MM	10 02 04	CRESTAL DRILL Ø 4.5 MM
10 40 14	ESSENTIAL CONE IMPLANT Ø 4.0 X 14 MM	10 02 05 T	DRILL Ø 3.3 MM [DS]
10 45 08	ESSENTIAL CONE IMPLANT Ø 4.5 X 08 MM	10 02 05 LT	LONG DRILL Ø 3.3 MM [DS]
10 45 10	ESSENTIAL CONE IMPLANT Ø 4.5 X 10 MM	10 02 06 T	DRILL Ø 3.6 MM [DS]
10 45 12	ESSENTIAL CONE IMPLANT Ø 4.5 X 12 MM	10 02 06 LT	LONG DRILL Ø 3.6 MM [DS]
10 45 14	ESSENTIAL CONE IMPLANT Ø 4.5 X 14 MM	10 02 07	CRESTAL DRILL Ø 6 MM
10 48 08	ESSENTIAL CONE IMPLANT Ø 4.8 X 08 MM	10 02 08 T	DRILL Ø 4.5 MM [DS]
10 48 10	ESSENTIAL CONE IMPLANT Ø 4.8 X 10 MM	10 02 09 T	DRILL Ø 4.1 MM [DS]
10 48 12	ESSENTIAL CONE IMPLANT Ø 4.8 X 12 MM	10 02 09 LT	LONG DRILL Ø 4.1 MM [DS]
10 48 14	ESSENTIAL CONE IMPLANT Ø 4.8 X 14 MM	10 02 10 T	DRILL Ø 3.3 MM [DS]
		10 02 10 LT	LONG DRILL Ø 3.3 MM [DS]
		10 02 11 T	DRILL Ø 3.6 MM [DS]
15 35 08	ESSENTIAL CONE IMPLANT 1.5 Ø 3.5 X 08 MM	10 03 01	THREAD INITIATOR Ø 3.5 MM [RED]
15 35 10	ESSENTIAL CONE IMPLANT 1.5 Ø 3.5 X 10 MM	10 03 02	THREAD INITIATOR Ø 4.0 MM [BLUE]
15 35 12	ESSENTIAL CONE IMPLANT 1.5 Ø 3.5 X 12 MM	10 03 03	THREAD INITIATOR Ø 4.8 MM [GREEN]
15 35 14	ESSENTIAL CONE IMPLANT 1.5 Ø 3.5 X 14 MM	10 03 04	THREAD INITIATOR Ø 4.5 MM [BLACK]
15 40 06	ESSENTIAL CONE IMPLANT 1.5 Ø 4.0 X 06 MM	10 06 12	GAUGE Ø 3.5 MM
15 40 08	ESSENTIAL CONE IMPLANT 1.5 Ø 4.0 X 08 MM	10 06 13	GAUGE Ø 4.0 MM
15 40 10	ESSENTIAL CONE IMPLANT 1.5 Ø 4.0 X 10 MM	10 06 14	GAUGE Ø 4.5 MM
15 40 12	ESSENTIAL CONE IMPLANT 1.5 Ø 4.0 X 12 MM	10 06 15	GAUGE Ø 4.8 MM
15 40 14	ESSENTIAL CONE IMPLANT 1.5 Ø 4.0 X 14 MM	10 06 05	PARALLELIZER
15 45 06	ESSENTIAL CONE IMPLANT 1.5 Ø 4.5 X 06 MM	JDTWKLF	JDTORQUE® RATCHET WRENCH
15 45 08	ESSENTIAL CONE IMPLANT 1.5 Ø 4.5 X 08 MM	JDTWKL	JDTORQUE® TORQUE WRENCH
15 45 10	ESSENTIAL CONE IMPLANT 1.5 Ø 4.5 X 10 MM	10 07 06	RATCHET WRENCH EC IMPLANT ADAPTER
15 45 12	ESSENTIAL CONE IMPLANT 1.5 Ø 4.5 X 12 MM	10 07 06 L	LONG RATCHET WRENCH EC IMPLANT ADAPTER
15 45 14	ESSENTIAL CONE IMPLANT 1.5 Ø 4.5 X 14 MM	10 07 08	CONTRA-ANGLE EC IMPLANT ADAPTER
15 48 08	ESSENTIAL CONE IMPLANT 1.5 Ø 4.8 X 08 MM	10 07 08 L	LONG CONTRA-ANGLE EC IMPLANT ADAPTER
15 48 10	ESSENTIAL CONE IMPLANT 1.5 Ø 4.8 X 10 MM	K 7000 A	WRENCH
15 48 12	ESSENTIAL CONE IMPLANT 1.5 Ø 4.8 X 12 MM	10 07 02	RATCHET WRENCH ADAPTER
15 48 14	ESSENTIAL CONE IMPLANT 1.5 Ø 4.8 X 14 MM	10 07 02 L	LONG RATCHET WRENCH ADAPTER
		10 07 04	CONTRA-ANGLE WRENCH

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WARNING

NOT ALL KLOCKNER® IMPLANTS SYSTEM PRODUCTS ARE AVAILABLE IN EVERY COUNTRY



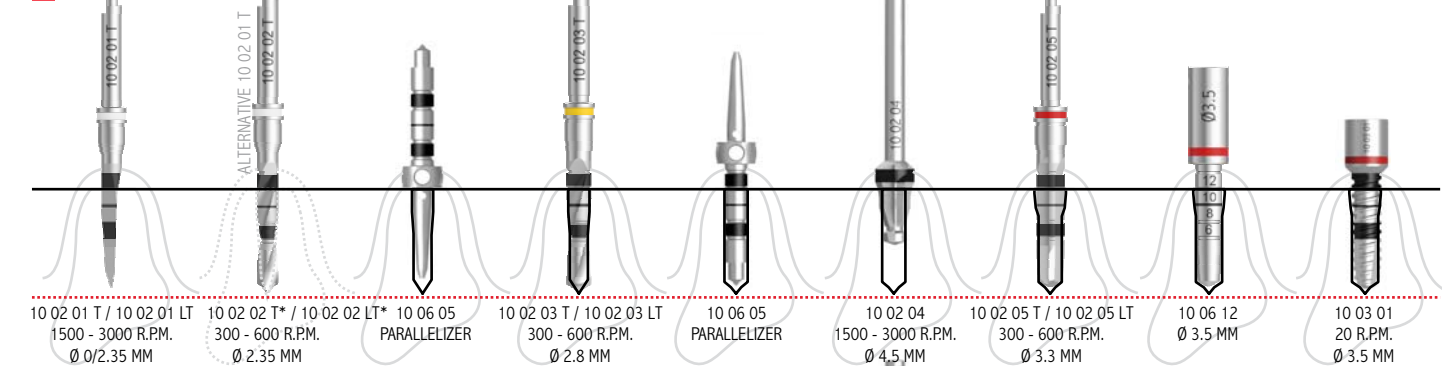
www.klocknerimplantsystem.com

QUICK GUIDE

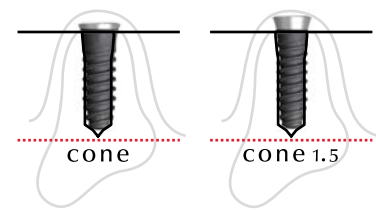
cone essential® cone 1.5 essential®



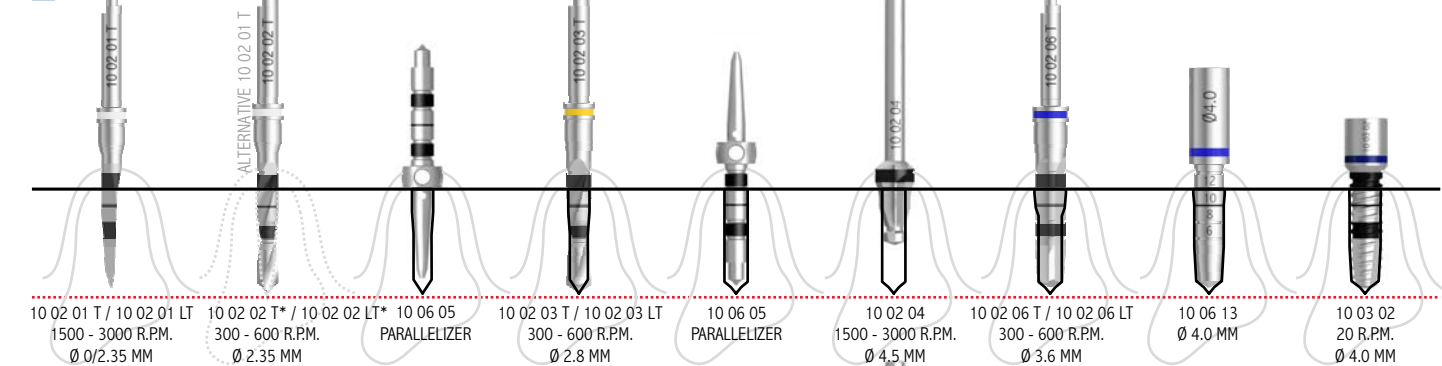
DIAMETER 3.5 MM



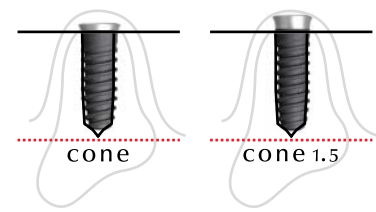
DIAMETER 3.5 MM



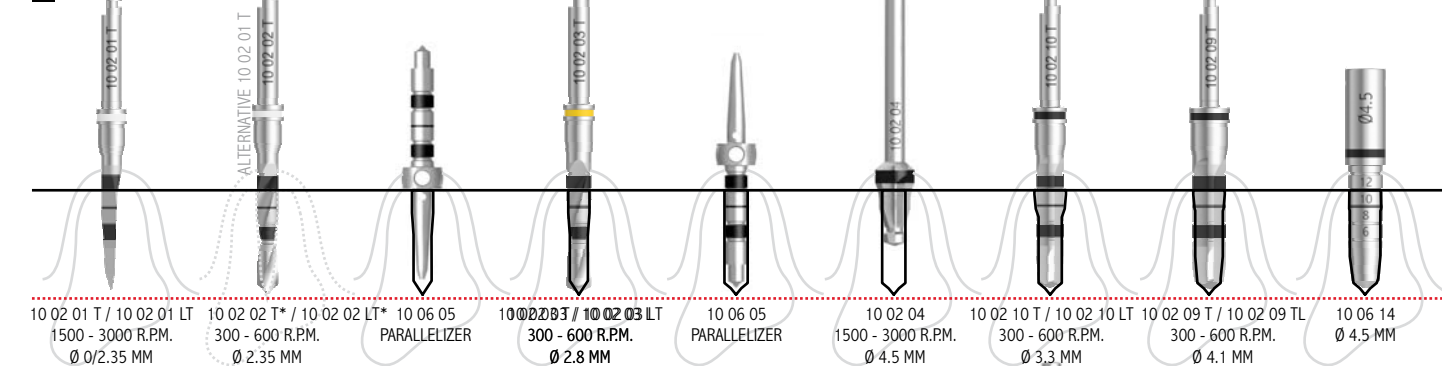
DIAMETER 4.0 MM



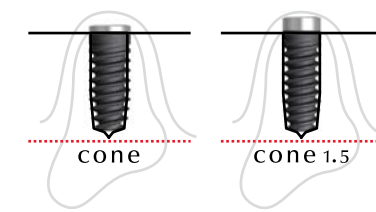
DIAMETER 4.0 MM



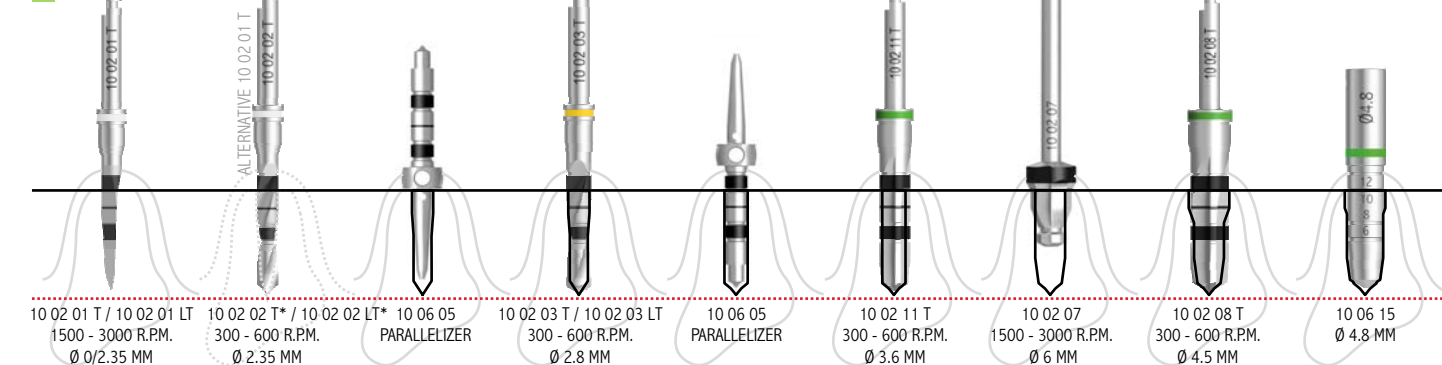
DIAMETER 4.5 MM



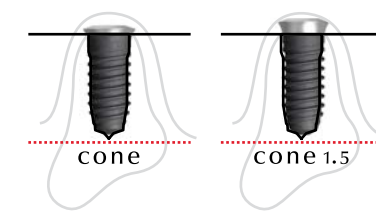
DIAMETER 4.5 MM



DIAMETER 4.8 MM



DIAMETER 4.8 MM



NOTE: THE FOLLOWING SEQUENCE SHOWS THE PLACEMENT OF IMPLANTS OF 12 MM OF LENGTH.

WARNINGS

NOT FOLLOWING THE STEPS DESCRIBED DURING THE SURGICAL PROCEDURES CAN LEAD TO:

- IMPLANT INSERTION DIFFICULTIES PRODUCING EXCESSIVE COMPRESSION IN RECIPIENT BONE
- LACK OF PRIMARY STABILITY.
- OSSEOINTEGRATION FAILURE.

ALL CUTTING AND ROTATING INSTRUMENTS CAN INVADE COMPROMISED ANATOMICAL AREAS SUCH AS:

- NASAL FOSSA.
- MAXILARY SINUS.
- DENTAL NERVE.
- MENTAL ORIFICE.
- LINGUAL ARTERY.

ENSURE THE TOOLKIT WITH FLOSS TO AVOID THE SWALLOWING OR ASPIRATION OF ANY SUCH MATERIAL.

ACCORDING TO THE MANUFACTURER NO DRILL SHOULD BE USED MORE THAN 5 TIMES. CHECK THAT THE DRILLS ARE IN PERFECT CONDITIONS PRIOR TO USE.

DUE TO THE MEASUREMENT RELATIONSHIP BETWEEN DRILLS AND IMPLANTS, THE SEQUENCE MUST BE FOLLOWED IN ALL CASES.

BEFORE ITS USE, CHECK THE HANDPIECE AND VERIFY THAT THE DRILLS ARE ENGAGED PERFECTLY AND ROTATING CLOCKWISE. ALSO BE SURE TO CHECK THAT THE IRRIGATION IS SUITABLE TO YOUR NEEDS.

THE ECCENTRICITY OF ANY ROTARY CUTTING ELEMENT CAN CAUSE ALVEOLAR OVERSIZING.

LATCH FAILURE FOR IN-MOUTH INSTRUMENTS MAY CAUSE DETACHMENT DRILLS OR OTHER INSTRUMENTS LEADING TO DEGLUTITION OR ASPIRATION.

PROFUSE IRRIGATION WITH STERILE SOLUTION IS ESSENTIAL DURING THE DRILLING PROCESS IN ORDER TO AVOID DAMAGING THE BONE TISSUE AND NOT COMPROMISING THE OSSEOINTEGRATION OF THE IMPLANT.

LACK OF IRRIGATION WHILE USING ROTATING INSTRUMENTS MAY CAUSE BONE NECROSIS. THE RECOMMENDED SPEEDS MUST NOT BE EXCEEDED.

APPLICATION OF LEVER FORCES DURING THE DRILLING PROCESS MAY LEAD TO THE BREAKAGE OF THE INSTRUMENT.

TORQUE FORCES EXCEEDING 45 NCM MAY DETERIORATE THE SURGICAL MATERIAL ON THE HAND PIECE AND MAY EVEN HARM THE HAND PIECE ITSELF. INTERMITTENT PRESSURE SHOULD BE USED WHILE DRILLING, THIS REDUCES BONE OVERHEATING.

THE LOSS OF COLOR IDENTIFICATION IN DRILLS CAN CAUSE ERRORS IN THE SEQUENCE OF MILLING.

KLOCKNER® IMPLANT SYSTEM DISCLAIMS ANY LIABILITY FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THE INSTRUCTIONS OF USE.

INITIATORS · SYSTEMATICS OF USE

INITIATOR INSERTION



USE THE THREAD INITIATOR TO TAP THE ESSENTIAL® CONE IMPLANT THREAD. YOU CAN WORK WITH SPECIFIC ADAPTERS AND HAND WRENCH FOR THE INSERTION OF THREAD INITIATORS.

THREAD PREPARATION GUIDE

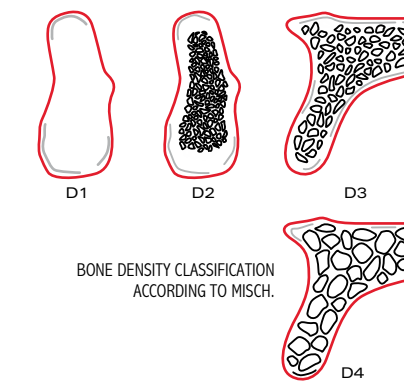
BONE TYPE	IMPLANT DIAMETER			
	3.5	4.0	4.5 **	4.8
D1*	COMPLETE	COMPLETE	COMPLETE	COMPLETE
D2*	COMPLETE	COMPLETE	COMPLETE	COMPLETE
D3*	CORTICAL	CORTICAL	CORTICAL	CORTICAL
D4*	CORTICAL	CORTICAL	CORTICAL	CORTICAL

CORTICAL

Cortical bone thread preparation .

COMPLETE

Tap thread to the total length of the implant site preparation.



PLACEMENT WITH RATCHET OR TORQUE WRENCH

- JDTWKLF JDTORQUE® RATCHET WRENCH
- JDTWKL JDTORQUE® TORQUE WRENCH
- 10 07 02 RATCHET WRENCH ADAPTER
- 10 07 02 L LONG RATCHET WRENCH ADAPTER



INSERTION

Position the initiator on the adapter and start the tapping procedure with the ratchet or torque wrench [IN] through slow rotational movements.

REMOVAL

Once you reach the depth desired with the initiator, dismount the ratchet or torque wrench from the adapter, changing the direction [OUT] to proceed to its withdrawal.

WARNINGS

YOU MUST NOT START TAPPING MANEUVERS WITHOUT CHECKING THE CORRECT FIT OF THE INITIATOR TO THE HAND WRENCH ADAPTER. NOT FOLLOWING SURGICAL SEQUENCE RECOMMENDATIONS CAN CAUSE DIFFICULTIES DURING THE INSERTION OF THE INITIATOR.

PLEASE KEEP IN MIND THAT THE HAND WRENCH DOES NOT HAVE ANY SPECIFIC CALIBRATION AND MAY GENERATE EXCESSIVE FORCE THAT MAY HARM THE INTEGRITY OF THE IMPLANT AND THE INSTRUMENTATION. IT MAY ALSO CAUSE EXCESSIVE ALVEOLAR COMPRESSION, CAUSING BONE NECROSIS AND THEREFORE LOSS OF THE FIXTURE.

IF THE INSERTION OF THE INITIATOR ENCOUNTERS RESISTANCE DUE TO HIGH DENSITY BONE CHANGE THE HAND WRENCH DIRECTION TO COUNTER CLOCKWISE [OUT] UNTHREADING THE INITIATOR TWO TURNS. NEXT STEP IS TO CHANGE THE HAND WRENCH DIRECTION TO CLOCKWISE [IN] AND CONTINUE TAPPING. THIS WILL RELEASE BONE TENSIONS AND EASE THE TAPPING PROCEDURE. REPEAT THIS STEP AS MANY TIMES AS NECESSARY.

NOT FOLLOWING SURGICAL SEQUENCE RECOMMENDATIONS CAN CAUSE DIFFICULTIES DURING THE INSERTION OF THE INITIATOR AND MAY LEAD TO EXCESSIVE COMPRESSION AT THE IMPLANT SITE.