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BL - BONE LEVEL IMPLANT

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All of the materials produced by C-TECH follow a validated procedure, which includes surface treatment and packing as well, in conformity with European and international directives EN ISO 13485:2003/AC:207 and 93/42/EEC relative to medical devices.
PRECISION DENTAL SOLUTIONS
C-Tech Implant is a dynamic company with aggressive growth, producing components and product lines primarily for dental implantology.

INTERNATIONAL PRESENCE
With production and management based in Italy, C-Tech Implant is active in all major world markets and is distributed in over 20 countries.

SCIENTIFIC RESEARCH, ADVANCED TECHNOLOGY, SIMPLIFICATION
C-Tech Implant differentiates itself with attention to research and the application of high technology to its products, all while maintaining a simplicity of insertion and ease of use.

C-Tech Implant incorporates the latest trends in implantology but providing for very practical surgical and prosthetic solutions aimed at offering the practitioner and the patient optimal results.

HIGH QUALITY STANDARDS KEPT WITHIN REACH
C-Tech Implant products are made to the highest standards governing the manufacturing and management of European medical and dental components.
Up to date audits and certifications assure that these standards are vigilantly maintained.

TRAINING & ADVICE
Dental professionals are assisted by the rich knowledge and experience of C-Tech Implant personnel and through C-Tech courses and training sessions.
During these courses the professional is able to learn the latest methods of implant placement and reconstruction.

MISSION STATEMENT
The goal of C-Tech Implant is to provide the highest level of quality for technologically advanced products at reasonable prices in order to allow the dental practitioner to find solutions for the broadest range of patients.
IMPLANT CHARACTERISTICS

TAPERED INTERNAL HEX CONNECTION
The connection on the BL system comprises of two proven elements in implant prosthetics; a tapered connection with a hex at the base. The taper provides a cold welding seal which locks the abutment into its final seated position. The hex at the base of the implant provides an optimal positioning index. The combination of taper and hex deliver a high level of prosthetic precision while ensuring against abutment loosening.

SPEED AND EASE OF USE
The revolutionary threads, unique in their nature, allow for a smoother and faster insertion compared to common implant threads.

This advantage simplifies the work of the oral surgeon and reduces considerably the time of insertion. The thread has a particular 90° degree beveled profile: whose shape, angle and depth are specifically conceived to increase contact surface with the bone.

ROOT FORM ANATOMICAL DESIGN
The innovative macromorphological facility of the BL Implant System, with a variable degree of tapering, more pronounced near the apical region, has been designed to ease the implant’s insertion and to achieve a high primary stability.

COLLAR MICRO-GROOVING
The specific micro-architecture of the implant collar increases the primary stability and facilitates the introduction of the implant. It promotes the soft tissue healing process and reduces the risk of the bone resorption at collar level.

INTUITIVE AND EASY TO USE KIT
An instrumentation kit which has been kept as simple and efficient as possible. Predictable and easy to follow instrument protocols for practitioners of all levels.

1 - PLATFORM SWITCHING
2 - MORSE TAPER CONNECTION
3 - INTERNAL HEXAGON
DENTAL IMPLANT

| 6 mm | BL-3507 | BL-4306* | BL-5010 |
| 7 mm | BL-3509 | BL-4307 | BL-5011 |
| 9 mm | BL-3511 | BL-4309 | BL-5012 |
| 11 mm | BL-3513 | BL-4311 | BL-5014 |
| 13 mm | BL-3515 | BL-4313 | BL-5015 |
| 15 mm | BL-3517 | BL-4315 | BL-5015 |

*Please Note: All prosthetic and components of the Bone Level line are compatible with the Bone Level Short implant. Except for the prosthetic screw (BL-5052S)

HEALING ABUTMENTS Ø5

| BL-5010 | BL-5011 | BL-5012 | BL-5014 | BL-5015 |

HEALING ABUTMENTS Ø6

| BL-6010 | BL-6011 | BL-6012 |
CLOSED TRAY IMPRESSION TRANSFER

INTENDED USE
Closed tray impression technique.

CHARACTERISTICS
- Simple;
- Slender emergence profile to accommodate space limitations;
- No additional preparation (i.e. perforation) of tray required;
- High precision impression components give an exact replica of the intraoral situation;
- Clear-cut tactile response from the prosthetic connection verifies proper seating of components.

NOTE
Impression posts ensure optimal fit and precise impression taking for each patient.

STEP 1
Place the impression post accurately into the implant and hand-tighten the guide screw.

STEP 2
Push the impression cap at the top of the impression transfer.

STEP 3
Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

STEP 4
Use a standard impression tray.

STEP 5
Mount the impression transfer on the analog using the screw (ref. 5052).

STEP 6
Reposition the impression transfer in the tray. Push the impression transfer until you feel the complete engagement firmly seated on the impression cap.
OPEN TRAY IMPRESSION TRANSFER

INTENDED USE
Open tray impression technique.

CHARACTERISTICS
- Simple;
- Slender emergence profile accommodates space limitations;
- Guide screw can be tightened either by hand or with the SCS screwdriver;
- High precision impression components give an exact replica of the intraoral situation;
- Clear-cut tactile response from the prosthetic connection verifies proper seating of components.

NOTE
Open tray impression procedure requires a custom-made tray with perforations. Impression posts are intended for single use only to ensure optimal fit and precise impression taking for each patient.

STEP 1
Place the impression post accurately into the implant and hand-tighten the guide screw.

STEP 2
Make perforations in the custom-made impression tray (light cured resin) according to the individual situation so that the positioning screw of the impression post sticks out.

STEP 3
Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

STEP 4
Reposition and fix the analog in the impression using the screw.
TECHNICAL PLANNING ABUTMENTS

INTENDED USE
Intra & extra-oral planning of prosthetic restoration.

CHARACTERISTICS
- Simple;
- Color-coded and well-marked on the holder and easily readable PLANNING abutments;
- Comprehensive PLANNING set containing all PLANNING abutments arranged clearly;
- Easy handling thanks to the plastic holder;
- Proper seating of PLANNING abutments verified through the clear-cut response from, the prosthetic connection;
- PLANNING abutments fabricated of sterilizable polymer material.

NOTE
Be sure to clean and sterilize the planning abutments following intra-oral use. Do not sterilize the PLANNING abutment cassette.

STEP 1
Place the PLANNING abutment into the technical lab model situation in order to plan and choose the appropriate titanium abutment in cost effective manner.

STEP 2
Place the titanium abutment and hand-tighten the screw.

STEP 3
Prepare the titanium abutment, modify as required.

STEP 4
Fabricate the superstructure on the modified abutment using the standard modelling, casting and veneering methods.

STEP 5
- Cast the framework using the standard casting methods.

STEP 6
- Veneer the superstructure.

Ø 5 STRAIGHT PLANNING ABUTMENTS

15° ANGLED PLANNING ABUTMENTS

25° ANGLED PLANNING ABUTMENTS
TITANIUM ABUTMENTS

INTENDED USE
Cement-retained restorations.

CHARACTERISTICS
- Simple;
- Less grinding necessary due to prepared mucosa margins;
- Adaptation to natural soft tissue contour due to prepared mucosa margins in different heights (H1, H2, H3);
- Oval shape resembles emergence profile of a natural tooth
- Reliable;
- Tapered connection (pure cone). Abutment and implant are linked so as to form a one-piece unit;
- Extractor system allows easy abutment removal from the implant or the analog.

NOTE
The cement margin must not be more than 2 mm below the mucosa. Use a new basal screw for the final insertion of the abutment.

ABUTMENT EXTRACTOR SCREW
As the ABUTMENT EXTRACTOR SCREW is driven in, it will push the abutment out of the analog or implant.
TEMPORARY ABUTMENTS

FIBRE-GLASS Ø 5 STRAIGHT ABUTMENTS

- BL-10704/1
- BL-10704/2
- BL-10704/3

Includes Screw

FIBRE-GLASS 15° ANGLED ABUTMENTS

- BL-10705/1
- BL-10705/2
- BL-10705/3

Includes Screw

FIBRE-GLASS 25° ANGLED ABUTMENTS

- BL-10706/1
- BL-10706/2
- BL-10706/3

Includes Screw

STEP 1 - Modelling of the abutment on the implant.
STEP 2 - Polish and clean residue from the abutment.
STEP 3 - Placement of the restoration.

ZIRCONIUM ABUTMENTS

BL-4525-ZO
Zirconium Straight Abutment

BL-1543-ZO
Zirconium 15 Angled Abutment

INTENDED USE
Restorations in the esthetic zone.

CHARACTERISTICS
Made from White Zirconium oxide that provides a more natural color for the abutment in the esthetic zone.
SCREW-RETAINED RESTORATIONS

**Screws with Retainer**
- **BL-7000**: Healing Cap Screw
- **BL-7010**: Closed tray transfer
- **BL-7011**: Open tray transfer
- **BL-5146**: Multi-unit Analog
- **BL-0600**: Straight Multi-unit Driver
- **BL-4526**: Temporary Titanium Abutment include bridge screw
- **BL-5647**: Castable Abutment include bridge screw
- **BL-6051**: Bridge screw
- **BL-7013**: Metal holder

**Straight Abutments**
- **BL-4750/1**: Complete set
- **BL-4750/2**: Complete set
- **BL-4750/3**: Complete set

**17° Angled Abutments**
- **BL-1750/1**: Complete set
- **BL-1750/2**: Complete set

**30° Angled Abutments**
- **BL-3050/1**: Complete set
- **BL-3050/2**: Complete set

**Complete Set Includes**:
1. Multi-unit angled abutment
2. Prosthetics Screw
CLOSED TRAY TECHNIQUE

STEP 1
Remove the healing abutments.

STEP 2
Screw the straight abutment into the implant using the torque ratchet (30 Ncm) and the Multi-unit Driver.

SURGICAL PROCEDURE

STEP 1
Screw each closed tray transfer onto the protruding abutments.

STEP 2
Take the impression using an elastomeric impression material (polyvinyl siloxan or polyether rubber).

STEP 3
Remove the closed tray transfer from the abutment.

STEP 4
Screw onto the abutments the healing cap screws so as to keep the soft tissue in place until the final prosthesis is completed.

LABORATORY PROCEDURE

STEP 1
Screw the closed tray transfer onto the analog.

STEP 2
Reposition the transfer into the previously taken impression material being sure that the transfers are properly seated.

STEP 3
Master model.
OPEN TRAY TECHNIQUE

STEP 1
Remove the healing abutments.

STEP 2
Screw the straight abutment into the implant using the torque ratchet (30 Ncm) and the Multi-unit Driver.

SURGICAL PROCEDURE

STEP 1 - Screw the impression post accurately into the Multi-unit abutments and hand-tighten the guide screw.

STEP 2 - Make perforations in the custom-made impression tray (light cured resin) according to the individual situation so that the positioning screw of the impression post protrudes. Take the impression using an elastomeric impression material (polyvinyl siloxane or polyether rubber).

STEP 3 - Unscrew the opened tray transfers from the abutment.

STEP 4 - Screw onto the abutments the healing cap screws so as to keep the soft tissue in place until the final prosthesis is completed.

LABORATORY PROCEDURE

STEP 1
The laboratory will prepare the tray for the clinician by preplanned openings in the tray from which the impression posts will protrude. The tray will in turn be given to the clinician to take the impression.

STEP 2
Reposition and fix the analog in the impression using the screw.

STEP 3
Master model.
SCREW RETAINED RESTORATION

STEP 1
Master model.

STEP 2
Place and screw the castable abutments onto the protruding multi-unit analog.

STEP 3
Removable gingiva modeling material permits easy access for submucosal contouring and verification of component seating.

STEP 4
Attach the castable abutment cylinder firmly to the multi-unit analog. Multi-unit analog using a Laboratory Bridge Screw. Wax-up the bridge framework to appropriate dimensions. The layer of wax must have sufficient thickness to avoid the wrong coefficient of thermal expansion and a negative effect on porcelain firing.

STEP 5
Prepare the wax-up for investing and casting procedures.

STEP 6
Try and verify the framework on the working model. The restoration is seated on the multi-unit Analog with a passive fit.
STEP 1
Place the castable Multi-unit abutments on the analogs and tighten the Multi-unit internal screws.

STEP 2
Make height adaptations according to the individual situation.

STEP 3
Use a residue-free burn-out plastic to fix the bar segments to the castable abutments.

STEP 4
The yellow clips (027CRG) are fixed into the prosthesis.
O-BALL ATTACHMENT SYSTEM

INTENDED USE
Removable dentures retained by implants in the mandible and maxilla.

CHARACTERISTICS
- Simple;
- The clinical process for the ball attachment is quick and easy;
- Functional;
- The O-ring attachment is designed to virtually eliminate wear on the Ball Abutment and minimize the need for maintenance;
- 3 different gingival heights;
- 3 different O-ring resistances offering optimal retention for every individual situation.

RELIABLE
Dual retention for optimal abutment-denture connection. Excellent long-term performance due to wear resistant components.

STEP 1
Screw the spherical abutment into the implant using the torque ratchet (30 Ncm) and the driver (ref. CT-0500).

STEP 2
Rebase the overdenture according to standard procedure.

STEP 3
Use a laboratory burr to relieve the denture base in the indicated areas.

METAL HOUSING

<table>
<thead>
<tr>
<th>MCH-1</th>
<th>Soft Retention</th>
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<tbody>
<tr>
<td>MCH-2</td>
<td>Medium Retention</td>
</tr>
<tr>
<td>MCH-3</td>
<td>Hard Retention</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MC3005B</th>
<th>O-ring (5 pieces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC3005</td>
<td>O-ring (5 pieces)</td>
</tr>
</tbody>
</table>

COMPLETE SET INCLUDES:
1. O-Ring (Ref. MC-3005, MC-3005B) 1 piece
2. Metal Housing (Ref. MCH-2)
3. O-Ball Abutment (Ref. 5644, 5642, 5641)
ANCHOR ABUTMENT SYSTEM

CAPS WITH METAL HOUSING

141CAE 2 Stainless steel housings
140CEV 4 Retentive caps violet “strong” (2.7kg)
140CET 4 Retentive caps white “standard” (1.8kg)
140CER 4 Retentive caps pink “soft” (1.2kg)
140CEG 4 Retentive caps yellow “extra-soft” (0.6kg)

ANCHOR ABUTMENT SYSTEM COMPLETE SET

BL-8994 BL-8995 BL-8996 BL-8997 BL-8998

COMPLETE SET INCLUDES:

1 Anchor abutment (Ref. BL-8994, BL-8995, BL-8996, BL-8997, BL-8998)
1 Stainless steel housings (Ref. 141CAE)
1 Retentive caps - violet “strong” (Ref. 140CEV)
1 Retentive caps - white “standard” (Ref. 140CET)
1 Retentive caps - pink “soft” (Ref. 140CER)
1 Retentive caps - yellow “extra-soft” (Ref. 140CEG)

LABORATORY ACCESSORIES

140CEN 4 Processing Caps - black
144MTE 2 Impression Coping
144AE 2 Laboratory Analog
044CAIN Pull-off Impression Coping

SURGICAL INSTRUMENTS

124ICP 1 Blue plastic “multiuse” insertion tool
185IAC 1 Metal insertion tool for caps
191ECS 1 Metal extractor tool for caps
774CQ 1 OT-Equator square screw driver for implant abutment (square 1.25mm)
760CE 1 Square driver connector for torque
DELUXE SURGICAL KIT

DELUXE SURGICAL KIT INCLUDES:

Locator drill CT-2020
2.0 external irrigation drill (Ø 2.0) CT-1720E
3.5 external irrigation drill (Ø 3.0) CT-1735E
4.3 external irrigation drill (Ø 3.6) CT-1743E
5.1 external irrigation drill (Ø 4.6) CT-1751E
Counterbore CT-2035E
3.5 Bone Tap CT-7154E
4.3 Bone Tap CT-7155E
5.1 Bone Tap CT-7151E
Drill Extender CT-2000
Manual Hex Driver Short CT-9025S
Manual Hex Driver Long CT-9025
1.25mm Hextool Torque Wrench Attachments CT-8051
1.25mm Hextool Torque Wrench Attachments (Long) CT-8052

Implant Latch Driver CT-E9040
Implant Ratchet Driver (Short) CT-E7001
Implant Ratchet Driver (long) CT-E7001L
Torque Wrench (50 Ncm) CT-8010
Depth Gauge (3.5 mm) CT-E9007
Depth Gauge (4.3 mm) CT-E9008
Depth Gauge (5.1 mm) CT-E9010
Paralleling Pins, qty. 2 (1.6 mm & 2.0 mm) CT-9000
Paralleling Pins, qty. 2 (3.5 mm & 4.3 mm) CT-9003
Set metal stopper (L.9/11/13/15) CT-Stop07/08/09/10
Implant Latch Driver BL-E9040
Implant Ratchet Driver Short BL-E7001
Implant Ratchet Driver Long BL-E7001L

REFERENCES:

Sur.Kit.01:
Deluxe Surgical Kit for BL And GL Line

BL-Sur.Kit.01:
Deluxe Surgical Kit for BL Line
REDUCED SURGICAL KIT

REDUCED SURGICAL KIT INCLUDES:

Locator drill CT-2020
2.0 external irrigation drill (Ø 2.0) CT-1720E
3.5 external irrigation drill (Ø 3.0) CT-1735E
4.3 external irrigation drill (Ø 3.6) CT-1743E
Counterbore CT-2035E
Stopper (9 mm) CT-Stop07
Stopper (11 mm) CT-Stop08
Drill Extender CT-2000
Manual Hex Driver Short CT-9025S
Manual Hex Driver Long CT-9025
Implant Ratchet Driver (Short) BL-E7001
Implant Latch Driver BL-E9040
Torque Wrench (50 Ncm) CT-8010
Paralleling Pins, qty. 2 (1.6 mm & 2.0 mm) CT-9000

REFERENCES:
BL Sur.Kit.02:
Reduced Surgical Kit for BL Line
DRILLS & BONE TAPS

SURGICAL PROCEDURE BL Ø 3.5 IMPLANT

CT-2020 Locator Drill
CT-1720E 2.0mm Irr. Drill
(Outer Ø 2.0mm)
CT-1735E 3.5mm Irr. Drill
(Outer Ø 3.0mm)
CT-2035E Irrigated Counterbore
CT-7154E 3.5 Bone Tap
(Outer Ø 3.4mm
for use in hard bone)

SURGICAL PROCEDURE BL Ø 4.3 IMPLANT

CT-2020 Locator Drill
CT-1720E 2.0mm Irr. Drill
(Outer Ø 2.0mm)
CT-1735E 3.5mm Irr. Drill
(Outer Ø 3.0mm)
CT-1743E 4.3mm Irr. Drill
(Outer Ø 3.6mm)
CT-2035E Irrigated Counterbore
CT-7155E 4.3 Bone Tap
(Outer Ø 4.2mm
for use in hard bone)

SURGICAL PROCEDURE BL Ø 5.1 IMPLANT

CT-2020 Locator Drill
CT-1720E 2.0mm Irr. Drill
(Outer Ø 2.0mm)
CT-1735E 3.5mm Irr. Drill
(Outer Ø 3.0mm)
CT-1743E 4.3mm Irr. Drill
(Outer Ø 3.6mm)
CT-1751E 5.1mm Irr. Drill
(Outer Ø 4.6mm)
CT-7151E 5.1 Bone Tap
(Outer Ø 5.0mm
for use in hard bone)
**IMPLANT PACKAGING**

**ONE STAGE TECHNIQUE**

Healing abutments are available in Ø 5 heights of 1, 2, 3, 5 and 7 mm and in Ø 6 heights of 1, 2, 3 mm. A healing abutment equal to or slightly greater than the soft tissue depth is placed for a one stage surgery in order to avoid a second surgery.

**TWO STAGE TECHNIQUE**

The 0.8mm Cover Screw has a low, contoured profile for ease of tissue coverage during the healing phase. After the healing phase of osseointegration, a Healing Abutment is then placed during the second stage surgery.

The Implant mount must be used to manually advance the BL Implant in the osteotomy until increased torque is necessary to remove the Implant mount.

The Ratchet Wrench (CT-8010) or Adjustable Torque Wrench (CT-8030) is connected to the Implant mount for final insertion in the osteotomy site.