UNIVERSAL EXTERNAL HEX IMPLANTS
Many clinicians have achieved excellent success with external hex dental implant systems introduced by Professor Per-Ingvar Brånemark over four decades ago. This record of successful clinical experiences combined with technological advances developed by Intra-Lock inspired a new generation and a new standard of excellence for this classic design.

Intra-Lock’s Unihex™ Implant’s macro and micro design are based upon many of the technological advances found in Intra-Lock’s Internal Connection Implant System. The selection of implant architectures are engineered to be “site-specific” and to encourage physiologic harmony. OSSEAN®, Intra-Lock’s hydrophilic and biologically active surface treatment, activates the body’s natural healing abilities and stimulates bone cell metabolism; encouraging accelerated healing and greater bone-to-implant contact.

For the implant surgeon, this broad-based system will help ensure an ideal bone response when compromised volume, density, and extraction site defects are encountered. A single family of prosthetic components offer the restorative dentist unparalleled sophistication in oral rehabilitation, with simplicity in treatment planning and instrumentation.

SURFACE
OSSEAN® is Intra-Lock’s biologically active implant surface treatment. It is designed to activate the body’s naturally healing abilities and to induce primary stability during the critical stage after placement. The structure’s differential topography begins at the surface and extends beyond the nanoscale level. Characterized by this fractal topography, OSSEAN® can be observed to have a similar surface structure at all levels of magnification. Calcium Phosphate impregnated at the molecular level, increases host-to-implant biocompatibility and biomechanical response.

Surface profilometry by Atomic Force Microscopy (AFM) demonstrates a complex surface at various level of magnification as preferred roughness, topography, micro and nano structure that encourages the healing process. Beyond the nanometric level, an ideal surface for fibrin attachment is revealed. At the micrometric level, the pattern is ideal for platelet deposition. Under a lower magnification, the pattern shows a congruency for osteoblast ingrowth. Beyond the nano level, calcium phosphate molecules are impregnated in the thick titanium oxide layer as confirmed by AUGER Spectroscopy when an electron beam of 15 nanometer diameter is shot at the surface.

MACRO ARCHITECTURE
Multiple implant architectures address a wide variety of clinical applications. Selection of an ideal configuration, thread profile, and abutment can maximize aesthetic and functional success. Biologically and clinically driven evidence designs enhance initial stability and preserve peri-implant soft and hard tissue.
• Single Universal Hex – Identical for All 3 Prosthetic Tables
• Esthetic Short Collar
• Micro-thread Cortical Design
• Self-tapping Thread Unique to Each Implant Diameter
• OSSEAN® Hydrophillic and Biologically Active Surface
• Drive-Lock™ Technology for Removal, Insertion and final Seating
• Single Surgical Kit – Simplified and Color Coded
• Same Prosthetic Components for all Implants
• One Fixation Screw and One Driver
HIGHLY AESTHETIC
Intra-Lock’s Universal Hex Connection utilizes the standard Branemark 2.7mm wide and 0.7mm tall hex connection making it fully compatible with the most widely used prosthetic standard. This connection is shared by all the system’s titanium alloy implant architectures; 3.4mm, 4.0mm and 4.75mm diameters. Intra-Lock’s Clinical Retaining Screw (HRS2), characterized by a proprietary enhanced microscopic surface structure, allows the maximum amount of pre-stress to be applied when tightening the final restoration. This combination of quality, strength, and technology are critical factors in reducing micro-movement, minimizing micro-leakage and avoiding screw loosening for long lasting, trouble free restoration.

DELIVERY SYSTEM
Drive-Lock™ technology enables the smooth, simple, uninterrupted delivery from sterile package to implant site without the need for a removable implant mount. Implant delivery and placement is accomplished with a single ergonomic motion, economy of instrumentation and without deformation of the external hex prosthetic interface.

Additionally, the tip of the Drive-Lock™ is a 1.3 mm hex driver, designed to carry the cover screw to the implant and thread it into place.

<table>
<thead>
<tr>
<th>REFERENCE NO.</th>
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<tbody>
<tr>
<td>DLHSR.........</td>
<td>Drive-Lock®, Hex, Short for ratchet</td>
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<tr>
<td>DLHLR.........</td>
<td>Drive-Lock®, Hex, Long for ratchet</td>
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<tr>
<td>DLHSCA........</td>
<td>Drive-Lock®, Hex, Short</td>
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<tr>
<td>DLHLCA........</td>
<td>Drive-Lock®, Hex, Long</td>
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www.intra-lock.com
RESTORATIVE OPTIONS

A single family of abutment designs can be used with any of the three prosthetic platforms: Narrow, Standard or Wide for increased simplicity, versatility, affordability, stability and enhanced aesthetics. A broad spectrum of restorative abutments enables a full range of treatment plan options. The restorative solutions may be from a simple cemented or screw-retained crown or bridge to full arch reconstruction with either attachments or fixed-removable bar designs. In addition, abutments are available for the use of the advanced, highly aesthetic CAD/CAM technology.

An optional restorative feature available for the 4.75mmØ Unihex Implant is the Wide Platform (WP) Prosthetic Series. The abutments embrace almost the full diameter of the implant without discrete platform shifting. The advantage is to provide a wider emerging profile. Included in the optional WP Prosthetic Series are Healing Abutments, Straight and Angled two-piece Abutments for Cemented Prostheses, Castable Cylinders, O-Ball Abutments and Laboratory Analogs.

Implants

REFERENCE NO.  PRODUCT DESCRIPTION

Ø3.4mm Straight Implants
H3408 ..............HEX EXT IMPLANT 3.4mm x 8mm
H3410 ..............HEX EXT IMPLANT 3.4mm x 10mm
H3411 ..............HEX EXT IMPLANT 3.4mm x 11.5mm
H3413 ..............HEX EXT IMPLANT 3.4mm x 13mm
H3415 ..............HEX EXT IMPLANT 3.4mm x 15mm

Ø3.75mm Threaded Implants
H3710TI ..........HEX IMPLANT 3.75mm x 10mm TI
H3711TI ..........HEX IMPLANT 3.75mm x 11.5mm TI
H3713TI ..........HEX IMPLANT 3.75mm x 13mm TI
H3715TI ..........HEX IMPLANT 3.75mm x 15mm TI

Ø4.0mm Short Collar Straight Implants
H4008TI ..........THREADED IMPLANT 4mm x 8mm
H4010TI ..........THREADED IMPLANT 4mm x 10mm
H4011TI ..........THREADED IMPLANT 4mm x 11.5mm
H4013TI ..........THREADED IMPLANT 4mm x 13mm
H4015TI ..........THREADED IMPLANT 4mm x 15mm

Ø4.75mm Straight Implants
H4708.............EXT HEX IMPLANT 4.75mm x 8mm
H4710.............EXT HEX IMPLANT 4.75mm x 10mm
H4711.............EXT HEX IMPLANT 4.75mm x 11.5mm
H4713.............EXT HEX IMPLANT 4.75mm x 13mm

Healing Abutments

- To help shape the soft tissue to match the emerging profile of the prosthesis.
- Various cuff heights: 2, 3, 4, 5 and 6mm.
- Full selection of WP Healing Abutments.

REFERENCE NO.  PRODUCT DESCRIPTION
HHA2 ............HEX HEALING ABUTMENT 2mm
HHA3 ............HEX HEALING ABUTMENT 3mm
HHA4 ............HEX HEALING ABUTMENT 4mm
HHA5 ............HEX HEALING ABUTMENT 5mm
HHA6 ............HEX HEALING ABUTMENT 6mm
HHA2W ..........HEX HEALING ABUTMENT 2mm, WIDE
HHA3W ..........HEX HEALING ABUTMENT 3mm, WIDE
HHA4W ..........HEX HEALING ABUTMENT 4mm, WIDE
HHA5W ..........HEX HEALING ABUTMENT 5mm, WIDE
HHA6W ..........HEX HEALING ABUTMENT 6mm, WIDE

Two-Piece Abutments

- Full selection of straight abutments with various cuff heights.
- Full selection of WP Straight & Angled Abutments.
- Contour angle abutments at 15° & 25°.
- Angle abutment with 12 possible alignment positions.
- One size Hex connection fits all three prosthetic tables.
- Retainer screw included.

REFERENCE NO.  PRODUCT DESCRIPTION

Straight Abutments
HSA1.............HEX STRAIGHT ABUT 1mm Collar
HSA2.............HEX STRAIGHT ABUT 2mm Collar
HSA3.............HEX STRAIGHT ABUT 3mm Collar
HSA1W ..........HEX STRAIGHT ABUT 1mm Collar, WIDE
HSA2W ..........HEX STRAIGHT ABUT 2mm Collar, WIDE
HSA3W ..........HEX STRAIGHT ABUT 3mm Collar, WIDE

Angled Abutments
HAA15 ..........HEX ANGLED ABUTMENT 15°
HAA25 ..........HEX ANGLED ABUTMENT 25°
HAA15W .........HEX ANGLED ABUTMENT 15° WIDE
HAA25W .........HEX ANGLED ABUTMENT 25° WIDE
**Castable Abutments**

- Gold-plastic castable cylinders.
- Full plastic cylinder sleeve.
- Hex and non-hex engaging castable abutment cylinders.
- One size Hex or non-Hex will fit all three prosthetic tables.
- Retaining screw included.

**REFERENCE NO.**  **PRODUCT DESCRIPTION**

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<tr>
<td>HGCH</td>
<td>HEX GOLD CYLINDER HEX</td>
</tr>
<tr>
<td>HPCH</td>
<td>HEX PLASTIC CYLINDER HEX w/ RETENTION SCREW</td>
</tr>
<tr>
<td>HPCNH</td>
<td>HEX PLASTIC CYLINDER NON HEX</td>
</tr>
<tr>
<td>HPCHW</td>
<td>HEX PLASTIC CYLINDER HEX w/ RETENTION SCREW, WIDE</td>
</tr>
<tr>
<td>HPCNHW</td>
<td>HEX PLASTIC CYLINDER NON HEX, WIDE</td>
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**O-Ball (Spherical) Abutment System**

- Ideal for tissue-supported overdenture restorations.
- Includes O-Ring housing in Standard and Wide Platforms.
- Anlogs available for indirect fabrications.
- Low profile metal housing for O-ring.
- Uses standard 1.3mm hex screwdriver.

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<tr>
<td>HBA1</td>
<td>HEX BALL ABUTMENT H:1mm w/ HOUSING AND RETENTIVE CAP</td>
</tr>
<tr>
<td>HBA2</td>
<td>HEX BALL ABUTMENT H:2mm w/ HOUSING AND RETENTIVE CAP</td>
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<tr>
<td>HBA3</td>
<td>HEX BALL ABUTMENT H:3mm w/ HOUSING AND RETENTIVE CAP</td>
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<tr>
<td>HBA4</td>
<td>HEX BALL ABUTMENT H:4mm w/ HOUSING AND RETENTIVE CAP</td>
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**Chromium Cobalt (CrCo) Castable Cylinder**

- Uniquely engineered to create highly esthetic, custom restorations.
- Elevated strength to withstand occlusal loads.
- High resistance to water corrosion.
- Biocompatible material composition.
- Retaining screw included.
- Easy to cement over.* Similar to gold over gold technique.
- Designed for chromium cobalt castings.

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<tr>
<td>HCCC</td>
<td>HEX Cr Co Cylinder</td>
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*See Instructions

**Prosthetic Retaining Screws**

Every prosthetic abutment utilizing a retaining screw is supplied with a Retaining Screw (HRS). It can serve as a laboratory screw and clinical try-in screw, if needed.

When the final prosthesis is ready to be delivered, the Clinical Retaining Screw (HRS2) can be used. They are supplied in sterile packaging. Torque these Clinical Retaining Screws only ONCE to the recommended value of 30 Ncm.

The Clinical Retaining Screw (HRS2) is characterized by an enhanced microscopic surface refinement rendering a matte black appearance. This proprietary surface structure allows the maximum amount of pre-stress to be applied to these screws when tightening the final restoration. It is an excellent method for avoiding screw loosening and ensuring the ultimate compressive clamping force that holds the components together.

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<tr>
<td>HRS</td>
<td>Retaining Screw</td>
</tr>
<tr>
<td>HRS2</td>
<td>Clinical Retaining Screw</td>
</tr>
</tbody>
</table>
 Locator® Abutments for Overdenture

- Dual retention surfaces.
- Low profile in 3 cuff heights: 2, 3 and 4mm.
- Self-alignment skirt to aid patients in positioning.
- Retention levels of 1, 1.5, 2, 3, 4 & 5lb.

REFERENCE NO. PRODUCT DESCRIPTION

HLOC2 ............EXT HEX LOCATOR ABUT H:2mm  
HLOC3 ............EXT HEX LOCATOR ABUT H:3mm  
HLOC4 ............EXT HEX LOCATOR ABUT H:4mm

Transfer & Analog

- Clinical Impression Coping with Long Impression Screw & Retaining Screw.
- Open & Closed Impressions accommodated.
- Matching Laboratory Analogs.

REFERENCE NO. PRODUCT DESCRIPTION

HLA ..............HEX LABORATORY ANALOG  
HT ..............HEX TRANSFER IMPRESSION COPING w/ SCREWS  
HLAW ...........HEX LABORATORY ANALOG, WIDE  
HTW ..............HEX TRANSFER IMPRESSION COPING w/ SCREWS, WIDE

Prosthetic Drivers

REFERENCE NO. PRODUCT DESCRIPTION

Contra-Angle  
CDCAS...............Contra-Angle Driver for Long Screws  
Swivel Drivers  
DL....................Swivel Driver, Long Ø1.3mm  
DS....................Swivel Driver, Short Ø1.3mm

Surgical Organizer Kit

- Universal Surgical Kit
- One kit accommodates Unihex™ External Connection Implants as well as Internal, Straight and Tapered Implants.
- Ergonomic design
- Color coded by prosthetic table
- Starter Stop-drill kit (optional)
- Laser etched for durability of marks

REFERENCE NO. PRODUCT DESCRIPTION

SKI ..................Straight Implant Surgical Kit

Unihex

www.intra-lock.com
References: