

# prosthetics catalog



BIOHORIZONS<sup>®</sup>

SCIENCE • INNOVATION • SERVICE

## why choose BioHorizons prosthetics?

Using authentic BioHorizons parts will ensure a precision fit connection between the prosthetic component and implant, avoiding costly component failures that may occur from using third-party prosthetics. Authentic BioHorizons parts are color-coded for easy identification to match the mating implant.

### authentic connection

#### advantages:

- lifetime warranty on all implants & prosthetics
- Spiralock® technology minimizes screw loosening
- precise mating geometries reduce prosthetic failures
- advanced design creates a better engineered connection
- color-coded prosthetic components match implant platforms



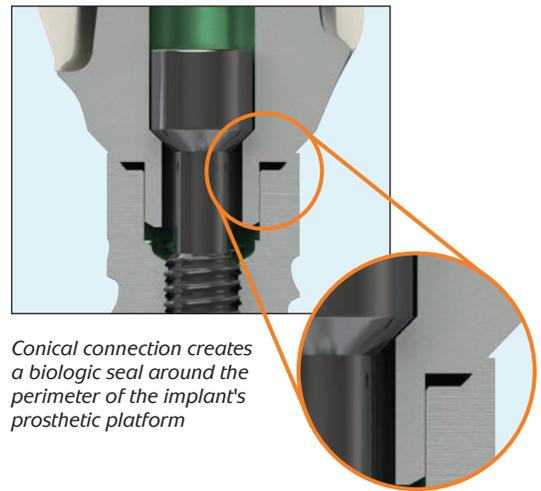
Look for this symbol from  
labs who use authentic  
BioHorizons parts.

For more information, visit us at  
[www.biohorizons.com/authentic.aspx](http://www.biohorizons.com/authentic.aspx)



# engineering better prosthetics

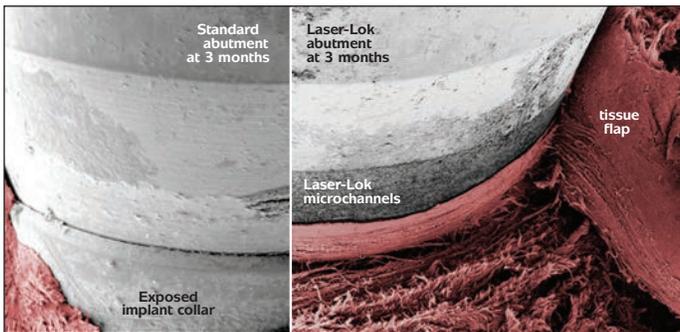
BioHorizons prosthetics are engineered and manufactured to seat precisely every time. The conical connection includes a small space between the components to guarantee contact of the abutment and implant around the entire perimeter of the prosthetic platform. This design creates a biologic seal and achieves optimal stress transmission, that protects the abutment screw from fracture and loosening.



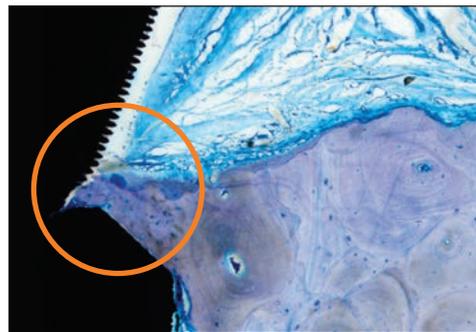
*Conical connection creates a biologic seal around the perimeter of the implant's prosthetic platform*

# Laser-Lok<sup>®</sup> technology

Laser-Lok microchannels is a proprietary surface treatment developed from over 25 years of research initiated to create the optimal implant surface. The establishment of a physical, connective tissue attachment to the Laser-Lok surface has generated an entirely new area of research and development: Laser-Lok applied to abutments. Through this research, the unique Laser-Lok surface has been shown to elicit a biologic response that includes the inhibition of epithelial downgrowth and the attachment of connective tissue.<sup>1-9</sup> Laser-Lok abutments can support peri-implant health around implants without Laser-Lok. Multiple pre-clinical and clinical studies support both of these concepts.<sup>4-9</sup>

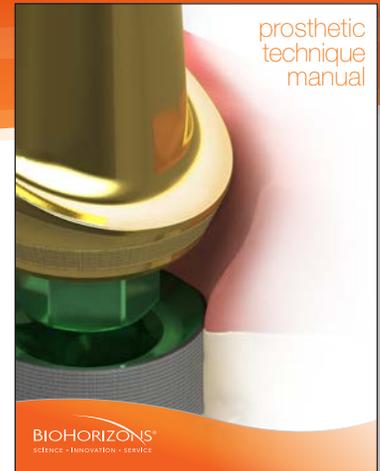


*Comparative SEM images show the variation in tissue attachment strength on standard and Laser-Lok abutments when a tissue flap is incised vertically and manually lifted using forceps.<sup>5</sup>*



*Histology of a Laser-Lok abutment on an RBT implant with a machined collar showing exceptional bone growth at 3 months.<sup>5</sup>*

## interactive prosthetic technique manual



The prosthetic technique manual provides fully illustrated step-by-step instruction for the use of BioHorizons prosthetics. The manual is intended to educate both clinicians and labs about the prosthetic options available. It is separated into technique modules that are updated frequently to describe the most current protocols used in implant dentistry.

The PDF versions of these modules are further enhanced by new animated sequences of the procedures providing multiple methods of learning the content.

The manual and animations are available online at [www.biohorizons.com/prosthetic-techniques.aspx](http://www.biohorizons.com/prosthetic-techniques.aspx) or on the BioHorizons app in the Prosthetics section.



This icon indicates a step-by-step technique module is available.



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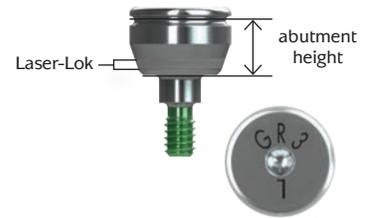
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# HEALING ABUTMENTS

## Laser-Lok Healing Abutments

		abutment diameter	3mm height	5mm height
Narrow	3.5mm platform, Laser-Lok	4.0mm	PYNHA3L	PYNHA5L
	4.5mm platform, Laser-Lok	5.0mm	PGNHA3L	PGNHA5L
	5.7mm platform, Laser-Lok	6.0mm	PBNHA3L	PBNHA5L
Regular	3.0mm platform, Laser-Lok	3.5mm	TP3HA3L	TP3HA5L
	3.5mm platform, Laser-Lok	4.5mm	PYRHA3L	PYRHA5L
	4.5mm platform, Laser-Lok	5.5mm	PGRHA3L	PGRHA5L
	5.7mm platform, Laser-Lok	6.5mm	PBRHA3L	PBRHA5L
Wide	3.0mm platform, Laser-Lok	4.0mm	TP3WHA3L	TP3WHA5L
	3.5mm platform, Laser-Lok	6.0mm	PYWHA3L	PYWHA5L
	4.5mm platform, Laser-Lok	7.0mm	PGWHA3L	PGWHA5L



Y = Yellow (3.5mm) platform  
 G = Green (4.5mm) platform  
 B = Blue (5.7mm) platform  
 N, R or W = Narrow, Regular or Wide emergence  
 3 or 5 = 3mm or 5mm abutment height  
 L = Laser-Lok

3.0 healing abutments are not laser marked due to their small size.

Use Laser-Lok healing abutments when a Laser-Lok abutment restoration is planned to inhibit epithelial downgrowth, establish a soft tissue seal and protect the bone. When a Laser-Lok component is used and temporarily removed for impression making or other restorative procedures, keep the removed Laser-Lok component in sterile saline until reinserting into the site. Hand-tighten with the .050" (1.25mm) Hex Driver. Titanium Alloy.



L02015-003 Handling of Laser-Lok abutments module

## Standard Healing Abutments

		abutment diameter	1mm height	2mm height	3mm height	5mm height
Narrow	3.0mm platform	3.0mm	-	TP3NHA2	TP3NHA3	TP3NHA5
	3.5mm platform	4.0mm	PYNHA1	PYNHA2	PYNHA3	PYNHA5
	4.5mm platform	5.0mm	PGNHA1	PGNHA2	PGNHA3	PGNHA5
	5.7mm platform	6.0mm	PBNHA1	PBNHA2	PBNHA3	PBNHA5
Regular	3.0mm platform	3.5mm	-	TP3HA2	TP3HA3	TP3HA5
	3.5mm platform	4.5mm	-	PYRHA2	PYRHA3	PYRHA5
	4.5mm platform	5.5mm	-	PGRHA2	PGRHA3	PGRHA5
	5.7mm platform	6.5mm	-	PBRHA2	PBRHA3	PBRHA5
Wide	3.0mm platform	4.0mm	-	-	TP3WHA3	TP3WHA5
	3.0mm platform (extra wide)	5.0mm	-	-	TP3EWHA3*	TP3EWHA5*
	3.5mm platform	6.0mm	-	-	PYWHA3	PYWHA5
	4.5mm platform	7.0mm	-	-	PGWHA3	PGWHA5
	5.7mm platform	8.0mm	-	-	PBWHA3*	PBWHA5*

Hand-tighten with the .050" (1.25mm) Hex Driver. Titanium Alloy.

The 3.5mm, 4.5mm and 5.7mm healing abutments are laser marked for easy intraoral identification of the prosthetic platform, emergence and height:

Y = Yellow (3.5mm) platform  
 G = Green (4.5mm) platform  
 B = Blue (5.7mm) platform  
 N, R or W = Narrow, Regular or Wide emergence  
 1, 2, 3 or 5 = 1mm, 2mm, 3mm or 5mm abutment height

3.0 healing abutments are not laser marked due to their small size.

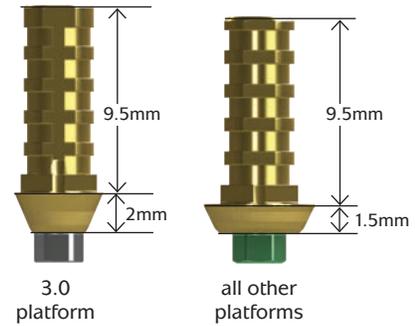


\* Available Q3 2019

# TEMPORARY ABUTMENTS

## Laser-Lok Easy Ti Abutments

	hexed	non-hexed
3.0mm platform	TP3ETHL	TP3ETNL
3.5mm platform	PYETHL	PYETNL
4.5mm platform	PGETHL	PGETNL
5.7mm platform	PBETHL	PBETNL



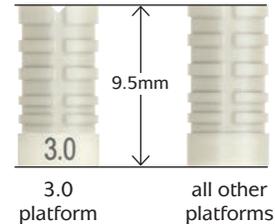
Use hexed for single-unit, screw retained, long term temporary restorations that require superior esthetics. Use non-hexed for multiple-unit, screw retained, long term temporary restorations. When a Laser-Lok component is used and temporarily removed for impression making or other restorative procedures, keep the removed Laser-Lok component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy for strength. TiN coated for esthetics. Final torque: 30Ncm.



**L02015-037** Screw-retained crown using the Laser-Lok Easy Ti abutment module

- TP3ETPS** 3.0mm platform (pack of 3), PEEK
- PXETPS** 3.5mm, 4.5mm & 5.7mm platform (pack of 3), PEEK

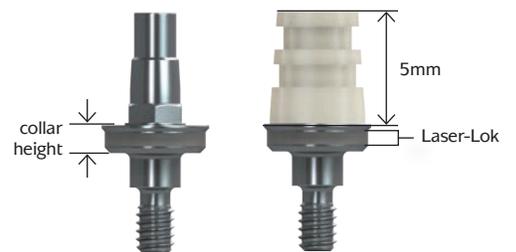
Use for fabrication of cement-retained provisional restorations (up to 30 days). Packaged in packs of three. PEEK (PolyEtherEtherKetone) material.



**L02015-039** Cement-retained crown using the Laser-Lok Easy Ti abutment and PEEK plastic sleeves module

## Two-piece Custom Temporary Abutments

	Laser-Lok		standard	
	1mm collar	3mm collar	1mm collar	3mm collar
3.0mm platform	TP3CTA1L	TP3CTA3L	TP3CTA1	TP3CTA3
3.5mm platform	PYCTA1L	PYCTA3L	PYCTA1	PYCTA3
4.5mm platform	PGCTA1L	PGCTA3L	PGCTA1	PGCTA3



Use to create an immediate temporary abutment for sculpting the soft tissue.

Two-piece Custom Temporary Abutments are offered with Laser-Lok microchannels on the collar to inhibit epithelial downgrowth and establish a biologic soft tissue seal around the abutment. When a Laser-Lok component is used and temporarily removed for impression making or other restorative procedures, keep the removed Laser-Lok component in sterile saline until reinserting into the site. Use included PEEK sleeve to support a temporary prosthesis. Final torque: 30Ncm.



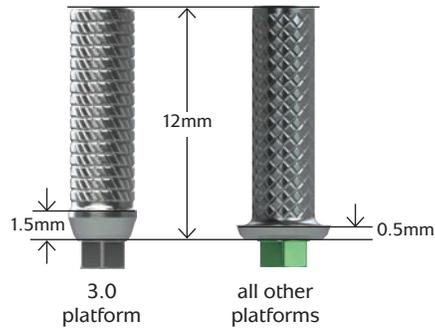
**L02015-019** Immediate restoration with two-piece custom temporary abutment module

**L02015-020** Immediate restoration with Laser-Lok two-piece custom temporary module

# TEMPORARY ABUTMENTS

## Titanium Temporary Abutments

	hexed	non-hexed
3.0mm platform	TP3TTH	TP3TTN
3.5mm platform	PYTTH	PYTTN
4.5mm platform	PGTTH	PGTTN
5.7mm platform	PBTTH	PBTTN



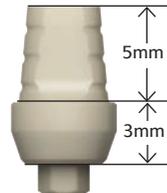
Use hexed for single-unit, screw-retained, long term temporary restorations (>30 days). Use non-hexed for multiple-unit, screw-retained, long term temporary restorations (>30 days). Packaged with an abutment screw (PXAS). Titanium Alloy. Final torque: 30Ncm.



L02015-022 Screw-retained bridge using titanium temporary abutments module

## PEEK Temporary Abutments (Regular Emergence)

TP3TA	3.0mm platform
PYRTA	3.5mm platform
PGRTA	4.5mm platform
PBRTA	5.7mm platform



Use for fabrication of cement- or screw-retained provisional restorations (up to 30 days). A direct coping screw (PXDCS, purchased separately) may be used to maintain screw access hole during fabrication of screw-retained provisional prostheses. Packaged with an abutment screw (PXAS). PEEK (PolyEtherEtherKetone) material. Final torque: 30Ncm.



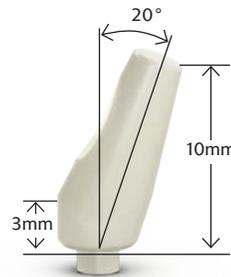
L02015-017 Cement-retained crown using the PEEK temporary abutment module

L02015-018 Screw-retained crown using the PEEK temporary abutment module

## Angled PEEK Temporary Abutments (Regular Emergence)

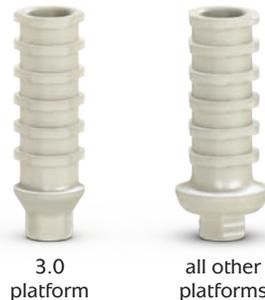
TP3RATA	3.0mm platform
PYRATA	3.5mm platform
PGRATA	4.5mm platform

Use for fabrication of cement-retained provisional restorations (up to 30 days). Packaged with an abutment screw (PXAS). PEEK (PolyEtherEtherKetone) material. Final torque: 30Ncm.



## PEEK Temporary Cylinder Abutments

	hexed	non-hexed
3.0mm platform	TP3PTC	TP3PTCN
3.5mm platform	PYPTC	PYPTCN
4.5mm platform	PGPTC	PGPTCN
5.7mm platform	PBPTC	PBPTCN

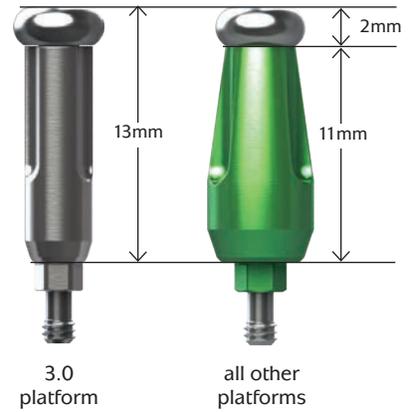


Use for fabrication of cement- or screw-retained provisional restorations (up to 30 days). A direct coping screw (PXDCS, purchased separately) may be used to maintain screw access hole during fabrication of screw-retained provisional prostheses. Packaged with an abutment screw (PXAS). PEEK (PolyEtherEtherKetone) material. Final torque: 30Ncm.

# IMPRESSION COMPONENTS

## Indirect Scoop Copings (Closed Tray)

TP3ISC	3.0mm platform (Regular Emergence)
TP3WISC	3.0mm platform (Wide Emergence)
PYNISC	3.5mm platform (Narrow Emergence)
PYRISC	3.5mm platform (Regular Emergence)
PYWISC	3.5mm platform (Wide Emergence)
PGNISC	4.5mm platform (Narrow Emergence)
PGRISC	4.5mm platform (Regular Emergence)
PGWISC	4.5mm platform (Wide Emergence)
PBNISC	5.7mm platform (Narrow Emergence)
PBRISC	5.7mm platform (Regular Emergence)



Use to make a closed-tray, implant-level, hexed-timed impression. Pre-assembled with a coping screw (PXSS). Titanium Alloy.

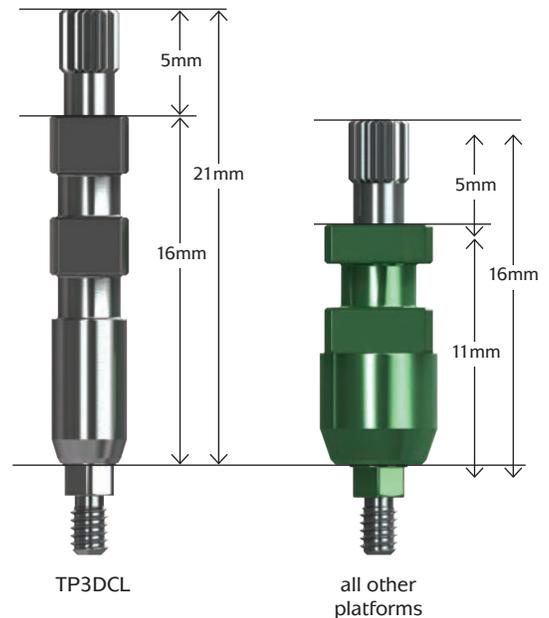


**L02015-007** Closed tray technique using the indirect transfer coping module

**L02015-008** Fabricating a custom impression coping using the closed tray technique module

## Direct Pick-up Copings (Open Tray)

TP3DC	3.0mm platform, hexed (Regular Emergence)
TP3DCN	3.0mm platform, non-hexed (Regular Emergence)
TP3DCL	3.0mm platform, hexed, long (Regular Emergence)
PYND	3.5mm platform, hexed (Narrow Emergence)
PYNDN	3.5mm platform, non-hexed (Narrow Emergence)
PYRDC	3.5mm platform, hexed (Regular Emergence)
PYWDC	3.5mm platform, hexed (Wide Emergence)
PGNDC	4.5mm platform, hexed (Narrow Emergence)
PGNDN	4.5mm platform, non-hexed (Narrow Emergence)
PGRDC	4.5mm platform, hexed (Regular Emergence)
PGWDC	4.5mm platform, hexed (Wide Emergence)
PBNDC	5.7mm platform, hexed (Narrow Emergence)
PBNDCN	5.7mm platform, non-hexed (Narrow Emergence)
PBRDC	5.7mm platform, hexed (Regular Emergence)



Use to make an open-tray, implant-level impression. Packaged with the direct coping screw, shallow hex (PXDCSS). Non-hexed versions may also be used to fabricate multiple-unit bars. Titanium Alloy. Hand-tighten.

Note: TP3DCL is packaged with the direct coping screw, long (PXDCSL).



**L02015-005** Open tray technique using the direct pick-up coping module

**L02015-006** Fabricating a custom impression coping using the open tray technique module

# IMPRESSION COMPONENTS

## Direct Coping Screws

### PXDCSS Direct Coping Screw, Shallow Hex

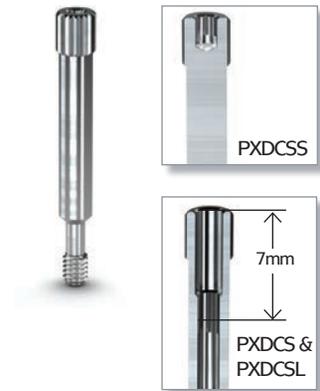
Packaged with all Direct Pick-up Copings, except 3.0mm platform, hexed, long (TP3DCL). Short hex depth for easy removal of impression material. May also be used to maintain the screw access hole during fabrication of a screw-retained provisional prostheses. Utilizes the .050" (1.25mm) Hex Driver. Hand-tighten or torque to 30 Ncm depending on application. Titanium Alloy.

### PXDCS Direct Coping Screw

Includes a deeper hex that allows up to 7mm to be prepped without losing the hex engagement. May also be used in place of an abutment screw (PXAS) when extra length is needed, or to maintain the screw access hole during fabrication of a screw-retained provisional prostheses. Utilizes the .050" (1.25mm) Hex Driver. Hand-tighten or torque to 30 Ncm depending on application. Titanium Alloy.

### PXDCSL Direct Coping Screw, Long

Packaged with 3.0mm platform, hexed, long (TP3DCL). PXDCSL has the same deep hex as the PXDCS and is 5mm longer than the PXDCS and the PXDCSS. May also be used in place of an abutment screw (PXAS) when extra length is needed, or to maintain the screw access hole during fabrication of a screw-retained provisional prostheses. Utilizes the .050" (1.25mm) Hex Driver. Hand-tighten or torque to 30 Ncm depending on application. Titanium Alloy.



## Implant Analogs

<b>TP3IA</b>	3.0mm platform	<b>TP3IA25</b>	3.0mm platform (pack of 25)
<b>PYIA</b>	3.5mm platform	<b>PYIA25</b>	3.5mm platform (pack of 25)
<b>PGIA</b>	4.5mm platform	<b>PGIA25</b>	4.5mm platform (pack of 25)
<b>PBIA</b>	5.7mm platform	<b>PBIA25</b>	5.7mm platform (pack of 25)

Use in the lab to represent the implant in the working cast. Not intended for use with Simple Solutions components or tissue-level implants. Titanium Alloy.



## Ball-top Screw for Indirect (Closed Tray) Transfer

### PXBT Ball-top Screw for Indirect Transfer

Use with the 3inOne Abutment to form an impression coping for closed-tray, hexed-timed transfers. Hand-tighten. Titanium Alloy.



## Abutment Screw

- PXAS** Abutment Screw
- PXAS25** Abutment Screw (pack of 25)

Fits all implant prosthetic platforms. Low profile screw head. Packaged with all two-piece abutments, except 3.0mm Custom Ti abutment and Angled Multi-unit abutments that are packaged with the PXMUAS. Utilizes the .050" (1.25mm) Hex Driver. Titanium Alloy. Final torque: 30 Ncm.



# IMPRESSION COMPONENTS

## Snap Copings

- TP3RSC      3.0mm platform (Regular Emergence)
- TP3WSC      3.0mm platform (Wide Emergence)
  
- PYNSC      3.5mm platform (Narrow Emergence)
- PYRSC      3.5mm platform (Regular Emergence)
- PYWSC      3.5mm platform (Wide Emergence)
  
- PGNSC      4.5mm platform (Narrow Emergence)
- PGRSC      4.5mm platform (Regular Emergence)
- PGWSC      4.5mm platform (Wide Emergence)
  
- PBNSC      5.7mm platform (Narrow Emergence)
- PBRSC      5.7mm platform (Regular Emergence)



Use to make a closed-tray, direct pick-up, implant-level impression.  
PEEK (PolyEtherEtherKetone) and Titanium Alloy material.



**L02015-034** Closed tray pick-up technique using the snap coping module

## Snap Scan Body

- TP3SSB8\*    3.0mm platform, 8mm
- PYSSB8\*    3.5mm platform, 8mm
- PGSSB8\*    4.5mm platform, 8mm
- PBSSB8\*    5.7mm platform, 8mm
  
- TP3SSB11\*   3.0mm platform, 11mm
- PYSSB11\*    3.5mm platform, 11mm
- PGSSB11\*    4.5mm platform, 11mm
- PBSSB11\*    5.7mm platform, 11mm



Use for traditional impressions or intra-oral scanning.  
PEEK (PolyEtherEtherKetone) and Titanium Alloy material.

- TP3SSB      3.0mm platform
- PYSSB      3.5mm platform
- PGSSB      4.5mm platform
- PBSSB      5.7mm platform



Use for table top or intra-oral scanning. PEEK (PolyEtherEtherKetone) and Titanium Alloy material.

Note: Prior to scanning, verify that the scan abutment is available in the library of the design software that will be used to design the abutment. Design libraries can be downloaded from [www.vulcandental.com](http://www.vulcandental.com).



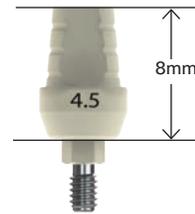
**L02015-038** Custom (CAD/CAM) prosthetics overview module

\* Available Q2 2019

# CUSTOM & CAD/CAM ABUTMENTS

## PEEK Scan Abutments

TP3PSA	3.0mm platform
PYPSA	3.5mm platform
PGPSA	4.5mm platform
PBPSA	5.7mm platform



Use for table top or intra-oral scanning. May also be used for fabrication of cement- or screw-retained provisional restorations (up to 30 days). Packaged with an abutment screw (PXAS). PEEK (PolyEtherEtherKetone) material. Final torque: 30Ncm.

Note: Prior to scanning, verify that the scan abutment is available in the library of the design software that will be used to design the abutment. Design libraries can be downloaded from [www.vulcandental.com](http://www.vulcandental.com).



L02015-038 Custom (CAD/CAM) prosthetics overview module

## 3Shape Scan Body

80610156 3Shape Scan Body Kit

Use for both intraoral scanning and in dental models with the original implant analogs. Titanium Alloy.

Includes:

- (1) 3.0mm Platform Scan Bodies
- (2) 3.5mm Platform Scan Bodies
- (2) 4.5mm Platform Scan Bodies
- (1) 5.7mm Platform Scan Bodies



## Custom Zirconia & Titanium Abutments for BioHorizons Implant Systems

- Titanium & hybrid zirconia abutments
- Surgical guides
- Titanium Bars
- Full arch Zirconia
- Complete digital workflow solutions

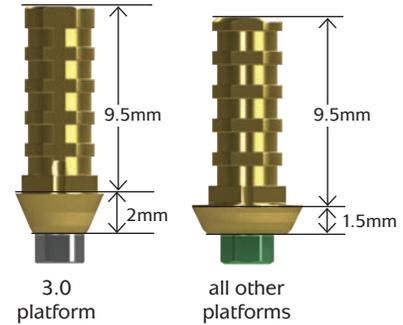


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# CUSTOM & CAD/CAM ABUTMENTS

## Laser-Lok Easy Ti Abutments

TP3ETHL	3.0mm platform, hexed
PYETHL	3.5mm platform, hexed
PGETHL	4.5mm platform, hexed
PBETHL	5.7mm platform, hexed
TP3ETNL	3.0mm platform, non-hexed
PYETNL	3.5mm platform, non-hexed
PGETNL	4.5mm platform, non-hexed
PBETNL	5.7mm platform, non-hexed



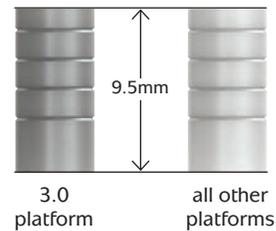
Use hexed abutments for single-unit, screw-retained or cement-retained, custom abutment restorations. Use non-hexed abutments for multiple unit, screw-retained restorations. When a Laser-Lok component is used and temporarily removed for impression making or other restorative procedures, keep the removed Laser-Lok component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy for strength. TiN coated for esthetics. Final torque: 30Ncm.



**L02015-037** Screw-retained crown using the Laser-Lok Easy Ti abutment module

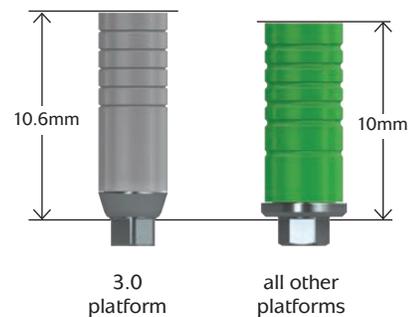
TP3ETS	3.0mm platform (pack of 3)
PXETS	3.5mm, 4.5mm & 5.7mm platform (pack of 3)

Use as a foundation to create a full contour wax-up for a lithium disilicate glass-ceramic pressed crown. Packaged in packs of three. Acetal resin (Delrin® or Pomalux®) sleeve.



## Custom Castable (UCLA) Abutments

TP3CAH	3.0mm platform, hexed
PYCAH	3.5mm platform, hexed
PGCAH	4.5mm platform, hexed
PBCAH	5.7mm platform, hexed
TP3CAN	3.0mm platform, non-hexed
PYCAN	3.5mm platform, non-hexed
PGCAN	4.5mm platform, non-hexed
PBCAN	5.7mm platform, non-hexed



Use hexed abutments for single-unit, screw-retained or cement-retained, custom abutment restorations. Use non-hexed abutments for multiple-unit, screw-retained restorations. Packaged with an abutment screw (PXAS). Gold Alloy base with acetal resin (Delrin® or Pomalux®) sleeve. Color-coded by platform. Final torque: 30Ncm.



**L02015-026** Screw-retained single crowns using custom-cast abutments module

**L02015-027** Screw-retained bridge using custom-cast abutments module

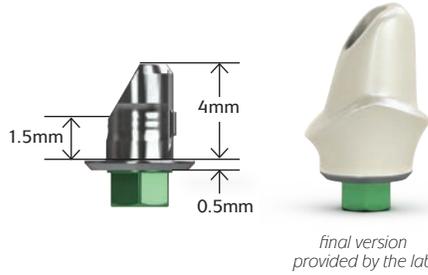


Now includes polishing protection analog

# CUSTOM & CAD/CAM ABUTMENTS

## Hybrid Base Abutments

TP3HYB	3.0mm platform, hexed
PYHYB	3.5mm platform, hexed
PGHYB	4.5mm platform, hexed
PBHYB	5.7mm platform, hexed
TP3HYBN	3.0mm platform, non-hexed
PYHYBN	3.5mm platform, non-hexed
PGHYBN	4.5mm platform, non-hexed
PBHYBN	5.7mm platform, non-hexed
TP3HYB2	3.0mm platform, 2mm collar
PYHYB2	3.5mm platform, 2mm collar
PGHYB2	4.5mm platform, 2mm collar
PBHYB2	5.7mm platform, 2mm collar



final version provided by the lab

### Note



Hybrid Base Abutments packaged with PXMUAS (light blue) abutment screw.

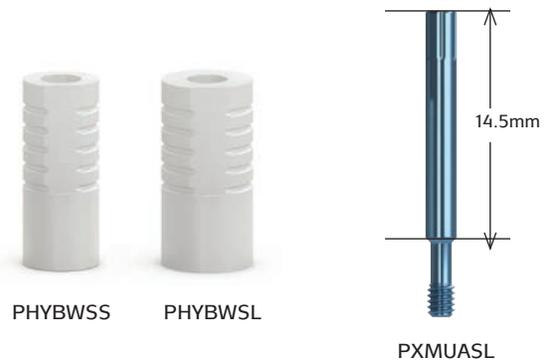
Use hexed abutments for single-unit, screw-retained or cement-retained, CAD/CAM hybrid zirconia restorations. Use non-hexed abutments for multiple unit, screw-retained CAD/CAM hybrid zirconia restorations. Packaged with an abutment screw (PXMUAS). Titanium Alloy for strength. Final torque: 30Ncm.

## Hybrid Abutment Waxing Sleeves & Custom Block-out Screw

PHYBWSS	3.0mm & 3.5mm platform (Pack of 3)
PHYBWSL	4.5mm & 5.7mm platform (Pack of 3)

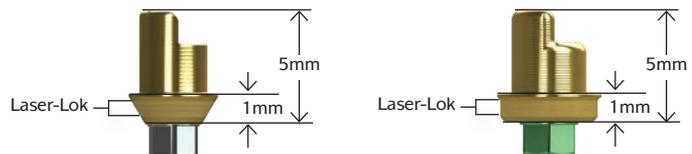
Use as a foundation to create a full contour wax-up for a lithium disilicate glass-ceramic pressed crown. Packaged in packs of three. Acetal resin (Delrin® or Pomalux®) sleeve.

PXMUASL	Custom Block-out Screw
---------	------------------------



## Laser-Lok Titanium Base Abutments and Waxing Sleeves

TP3TBL	3.0mm platform, Laser-Lok
PYTBL	3.5mm platform, Laser-Lok
PGTBL	4.5mm platform, Laser-Lok
PBTBL	5.7mm platform, Laser-Lok



Use for anterior cases that require a durable, highly esthetic solution. For single-unit, screw-retained or cement-retained, CAD/CAM hybrid zirconia restorations. When a Laser-Lok component is used and temporarily removed, keep the component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy for strength. TiN coated for esthetics. Final torque: 30Ncm. Note: TP3TBL and TP3TB have 3.0mm platform connections, but the margins flare to 3.5mm.

## Laser-Lok Titanium Base Waxing Sleeves



L02015-003 Handling of Laser-Lok abutments module

PYTBWSI	3.0/3.5mm platform, indexed (pack of 3)
PGTBWSI	4.5mm platform, indexed (pack of 3)
PBTBWSI	5.7mm platform, indexed (pack of 3)

Use as a foundation to create a full contour wax-up for a lithium disilicate glass-ceramic pressed crown. Packaged in packs of three. Acetal resin (Delrin® or Pomalux®) sleeve.



# CUSTOM & CAD/CAM ABUTMENTS

## Precision Angled Driver

- PADM14\* Manual Driver
- PADH14\* Handpiece Driver
- PADS14\* 4mm Square Driver
- PADS19\* 4mm Square Driver, Long

Use with PXPAS for angled screw access from 0° to 15°. Titanium Alloy.



## Precision Angled Screw

- PXPAS\* Precision Angled Screw

For use with the Hybrid Base Abutment and Precision Angled Driver. Titanium Alloy. Final torque: 30 Ncm.

Note: Precision angled screw and driver are only compatible with the hybrid base abutments in a digital work flow. Not compatible with Laser-Lok titanium base or 2mm tall hybrid base abutments.



The Precision Angled Driver and Screw can be used with the Hybrid Base abutment (hexed and non-hexed) to position the screw channel at an angle up to 15°. Digital planning is available for 3Shape and Exocad design software.

Download the digital library from [www.vulcandental.com](http://www.vulcandental.com).

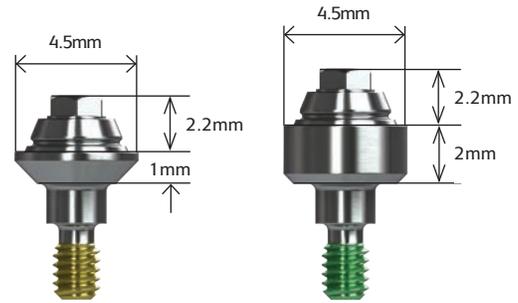


\* Available Q2 2019

# MULTI-UNIT ABUTMENTS

## Straight Multi-unit Abutments

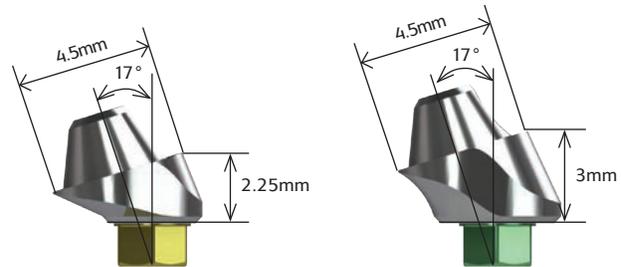
	1mm collar	2mm collar	3mm collar	4mm collar	5mm collar
3.0mm platform	TP3MU1	TP3MU2	TP3MU3	-	-
3.5mm platform	PYMU1	PYMU2	PYMU3	PYMU4	PYMU5
4.5mm platform	PGMU1	PGMU2	PGMU3	PGMU4	PGMU5
5.7mm platform	PBMU1	PBMU2	PBMU3	-	-



Straight Multi-unit abutments may be used for multiple-unit restorations including: screw-retained restorations at the abutment level, cast alloy bars for overdentures and fixed/detachable (hybrid) restorations. Comes with a cover cap (PXMUCC). Final torque: 30 Ncm using a Multi-unit Hex Adapter. Titanium alloy.

## 17° Angled Multi-unit Abutments

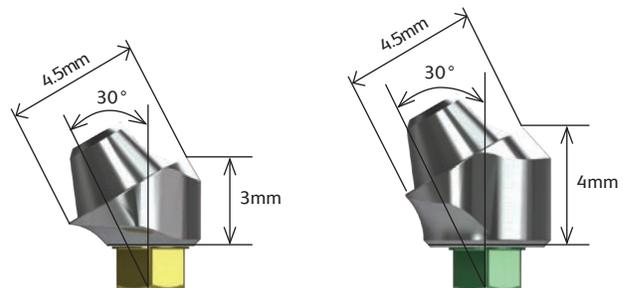
	2.25mm collar	3mm collar	4mm collar
3.0mm platform	TP3MU172	TP3MU173	-
3.5mm platform	PYMU172	PYMU173	PYMU174
4.5mm platform	PGMU172	PGMU173	PGMU174
5.7mm platform	PBMU172	PBMU173	-



17° Angled Multi-unit abutments may be used to angle-correct divergent implants. Use for multiple-unit restorations including: screw-retained restorations at the abutment level, cast alloy bars for overdentures and fixed/detachable (hybrid) restorations. Comes with a cover cap (PXMUCC) and abutment screw (PXMUAS). Final torque: 30 Ncm. Titanium alloy. Conveniently deliver abutment one-handed using an .050 hex or Unigrip™ driver or two-handed using an angled Multi-unit carrier (MUCA).

## 30° Angled Multi-unit Abutments

	3mm collar	4mm collar	5mm collar
3.0mm platform	TP3MU303	TP3MU304	-
3.5mm platform	PYMU303	PYMU304	PYMU305
4.5mm platform	PGMU303	PGMU304	PGMU305
5.7mm platform	PBMU303	PBMU304	-



30° Angled Multi-unit abutments may be used to angle-correct divergent implants. Use for multiple-unit restorations including: screw-retained restorations at the abutment level, cast alloy bars for overdentures and fixed/detachable (hybrid) restorations. Comes with a cover cap (PXMUCC) and abutment screw (PXMUAS). Final torque: 30 Ncm. Titanium alloy. Conveniently deliver abutment one-handed using an .050 hex or Unigrip™ driver or two-handed using an angled Multi-unit carrier (MUCA).

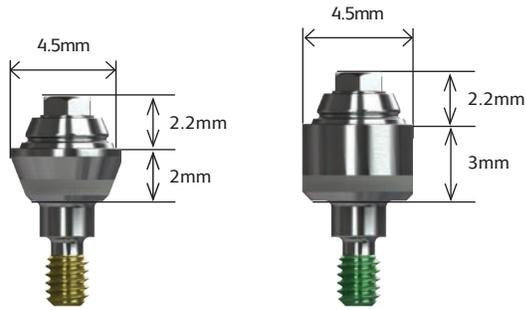


- L02015-028 Multi-unit abutment hybrid or fixed-detachable-screw-retained restoration module
- L02015-029 Multi-unit abutment bar overdenture - screw-retained restoration module
- L02015-031 Correcting a non-passive framework module

# MULTI-UNIT ABUTMENTS & COMPONENTS

## Laser-Lok Straight Multi-unit Abutments

	2mm collar	3mm collar
3.0mm platform	TP3MU2L	TP3MU3L
3.5mm platform	PYMU2L	PYMU3L
4.5mm platform	PGMU2L	PGMU3L



Laser-Lok Straight Multi-unit abutments may be used for multiple-unit restorations including: screw-retained restorations at the abutment level, cast alloy bars for overdentures and fixed/detachable (hybrid) restorations. When a Laser-Lok component is used and temporarily removed, keep the removed Laser-Lok component in sterile saline until reinserting into the site. Comes with a cover cap (PXMUCC). Final torque: 30 Ncm using a Multi-unit Hex Adapter. Titanium alloy.



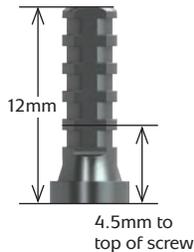
L02015-003 Handling of Laser-Lok abutments module

## Multi-unit Copings

### PXMUTC

#### Titanium

Use for fabricating acrylic temporary and final prostheses. May be trimmed for height. Packaged with prosthetic screw (PXMUPSR). Titanium alloy.



### PXMUGC

#### Gold Custom Castable

Use for fabricating metal-reinforced acrylic prostheses or bar overdentures. May be trimmed for height. Packaged with prosthetic screw (PXMUPSR). Coping has a gold alloy base with acetal resin (Delrin® or Pomalux®) sleeve.



### PXMUPC

#### Plastic Custom Castable

Use for fabricating metal-reinforced acrylic prostheses or bar overdentures. May be trimmed for height. Packaged with prosthetic screw (PXMUPSR). Acetal resin (Delrin® or Pomalux®)



### PXMUPFC

#### Passive Fit

Use for fabricating metal-reinforced acrylic prostheses or bar overdentures, cemented using the passive-fit technique. May be trimmed for height. Packaged with regular and long prosthetic screws (PXMUPSR, PXMUPSL). Coping has a titanium alloy base with acetal resin (Delrin® or Pomalux®) sleeve.



# MULTI-UNIT COMPONENTS

## Multi-unit Locators®

- LMUTC-2** Locator Multi-unit Abutment w/ Ti Collar (2 pack)
- LMUTC-10** Locator Multi-unit Abutment w/ Ti Collar (10 pack)

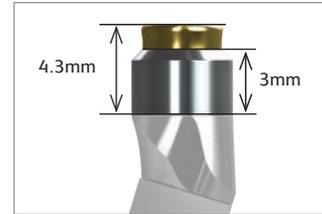
Use Male Processing Package for these collars (LMPP-2 or LMPP-10).

- LMUDC-2** Locator Multi-unit Abutment w/ Delrin® Collar (2 pack)
- LMUDC-10** Locator Multi-unit Abutment w/ Delrin® Collar (10 pack)

Use Locator Multi-unit Bar Processing Package listed below for these collars.

- LMUBPP-2** Locator Multi-unit Bar Processing Package (2 pack)
- LMUBPP-10** Locator Multi-unit Bar Processing Package (10 pack)

Locator attachments for multi-unit abutments have been designed as a free-standing option (LMUTC) for the angled multi-unit posterior sites and for castable bar-splinted applications (LMUDC). The Locator Multi-unit Bar Processing Package includes Denture Cap with Yellow Bar Processing Male, Dual Retentive Replacement Males: Clear, Pink, Blue, and Block-Out Spacer. Offered in 2 packs and 10 packs. For complete instructions, visit the Zest Anchors web site.



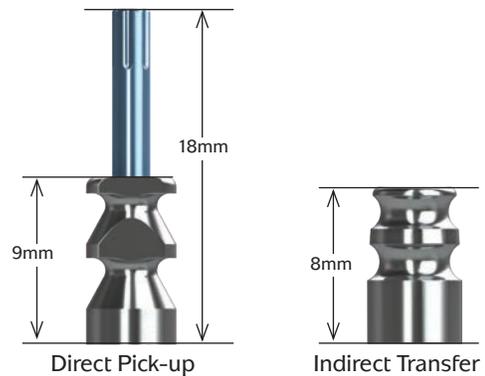
## Multi-unit Impression Copings

- PXMUDC** Direct Pick-up Coping, Multi-unit

Use to make a direct pick-up impression (open-tray) at the abutment level. Packaged with a prosthetic screw, long (PXMUPSL). Titanium alloy. Hand tighten.

- PXMUIC** Indirect Transfer Coping, Multi-unit

Use to make an indirect transfer (closed-tray) impression at the abutment level. Titanium alloy. Hand tighten.



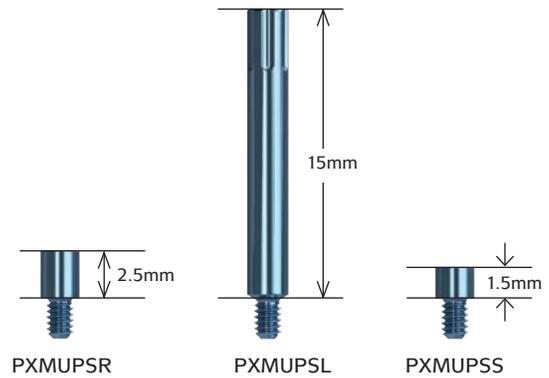
- L02015-010** Multi-unit abutment impression technique - direct open tray module
- L02015-011** Multi-unit abutment impression technique - closed tray module
- L02015-030** Verification jig fabrication module

# MULTI-UNIT COMPONENTS

## Multi-unit Coping Screws

- PXMUPSR**      Prosthetic Screw, Multi-unit, Regular (pack of 5)
- PXMUPSR25**    Prosthetic Screw, Multi-unit, Regular (pack of 25)
- PXMUPSL**      Prosthetic Screw, Multi-unit, Long (pack of 5)
- PXMUPSS\***     Prosthetic Screw, Multi-unit, Short (pack of 5)

For attaching copings to the Multi-unit abutments. Hand-tighten or torque to 15 Ncm with .050" (1.25mm) Hex Driver or Unigrip™ screw driver, depending on application. Titanium alloy. Included with copings where indicated but can also be ordered separately.



## Multi-unit Angled Abutment Screw & Abutment Carrier

- PXMUAS**      Abutment Screw, Multi-unit
- PXMUAS25**    Abutment Screw, Multi-unit (pack of 25)

For angled Multi-unit abutments only. Final torque: 30 Ncm with .050" (1.25mm) Hex Driver or Unigrip™ screw driver. Titanium alloy. Included with abutment but can also be ordered separately.



- MUCA**      Angled Multi-unit Abutment Carrier (pack of 3)

Use to deliver angled Multi-unit abutments to the surgical site. Titanium alloy.



## Multi-unit Cover Cap

- PXMUCC**      Cover Cap, Multi-unit

Packaged with all Multi-unit abutments. Hand-tighten with .050" (1.25mm) Hex Driver or Unigrip™ screw driver. Titanium alloy.



## Multi-unit Abutment Replica & Protection Analog

- PXMUAR**      Abutment Replica, Multi-unit

Use at lab to represent the Multi-unit/Implant assembly in the working cast. Not for use with implant-level impressions. Titanium alloy.



- PXMUPA**      Protection Analog, Multi-unit (pack of 5)

Use to protect abutment-coping interface when polishing the metal framework. Titanium alloy.



\* Available Q2 2019

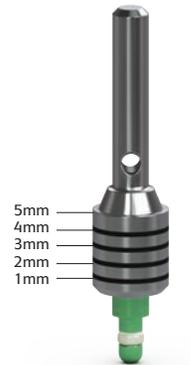
# MULTI-UNIT COMPONENTS

## Multi-unit Try-in Abutments

<b>TRYTP3MU</b>	3.0mm Multi-unit Try-in Straight Abutment
<b>TRYPYMU</b>	3.5mm Multi-unit Try-in Straight Abutment
<b>TRYPGMU</b>	4.5mm Multi-unit Try-in Straight Abutment
<b>TRYPBMU</b>	5.7mm Multi-unit Try-in Straight Abutment

Multi-unit Try-in Abutments may be used to measure tissue thickness and verify proper prosthetic seating prior to final abutment seating.

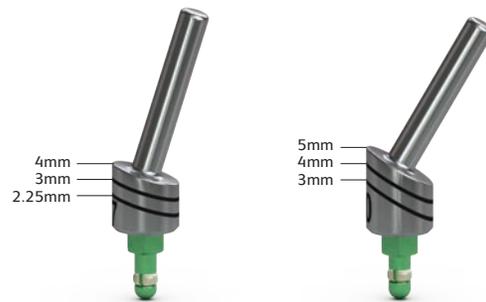
Each Try-in is laser marked from 1mm to 5mm to correspond with the Straight Multi-unit Abutment collar heights and can also be used as a measuring tool for OD Secure, Locator, Locator R-Tx and Ball abutment systems. Try-in is carried to the site by the handle and snaps into the implant.



Straight abutment  
Laser marking

<b>TRYTP3MU17</b>	3.0mm Multi-unit Try-in 17° Angled Abutment
<b>TRYPYMU17</b>	3.5mm Multi-unit Try-in 17° Angled Abutment
<b>TRYPGMU17</b>	4.5mm Multi-unit Try-in 17° Angled Abutment
<b>TRYPBMU17</b>	5.7mm Multi-unit Try-In 17° Angled Abutment

<b>TRYTP3MU30</b>	3.0mm Multi-unit Try-in 30° Angled Abutment
<b>TRYPYMU30</b>	3.5mm Multi-unit Try-in 30° Angled Abutment
<b>TRYPGMU30</b>	4.5mm Multi-unit Try-in 30° Angled Abutment
<b>TRYPBMU30</b>	5.7mm Multi-unit Try-In 30° Angled Abutment



17° Angled Abutment  
Laser marking

30° Angled Abutment  
Laser marking

Each Try-in is laser marked to correspond with the Angled Multi-unit Abutment collar heights. Try-in is carried to the site by the handle and snaps into the implant.

## Multi-unit Hex Adapters for Straight Abutments

**PXMUHAM** Manual Multi-unit Hex Adapter

Use to hand tighten straight Multi-unit abutments.

**PXMUHAH** Handpiece Multi-unit Hex Adapter

Use to torque straight Multi-unit abutments. Driven by latch-type handpiece. Do not exceed 30 Ncm.

**PXMUHAR** 4mm Square Multi-unit Hex Adapter

Use to torque straight Multi-unit abutments. Driven by 4mm square drive handwrench, ratchet, or torque wrench. Do not exceed 30 Ncm.



Manual

Handpiece

4mm Square

## Paralleling Pins

<b>144-100</b>	Straight Parallel Pins
<b>144-200</b>	20° Angled Parallel Pin
<b>144-230</b>	30° Angled Parallel Pin

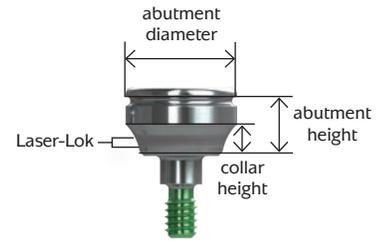
Use parallel pins to assess implant angulation and estimate which angled abutment is appropriate for the restoration.



# SIMPLE SOLUTIONS ABUTMENTS

## Laser-Lok Simple Solutions Healing Abutments

	abutment diameter	2mm height (0.8mm collar)	3mm height (1.8mm collar)	3.5mm height (2.8mm collar)
3.5mm platform, Laser-Lok	5.0mm	PYHA08L	PYHA18L	PYHA28L
4.5mm platform, Laser-Lok	6.0mm	PGHA08L	PGHA18L	PGHA28L
5.7mm platform, Laser-Lok	7.0mm	PBHA08L	PBHA18L	PBHA28L



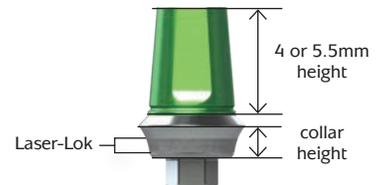
Use Laser-Lok Simple Solutions healing abutments when a Simple Solutions abutment restoration is planned to inhibit epithelial downgrowth, establish a soft tissue seal and protect the bone. A Simple Solutions restoration avoids having to remove and replace the abutment to take an impression. The snap cap, closed tray impression transfer, connects to the final abutment. See L01017 or L02007 for more information. Hand-tighten with the .050" (1.25mm) Hex Driver. Titanium Alloy.



Laser marked for easy intraoral identification; for example: GS1.8L = Green (4.5mm) platform / Simple Solutions / 1.8mm collar / Laser-Lok

## Laser-Lok Simple Solutions Abutment Packs

	0.8mm collar	1.8mm collar	2.8mm collar
3.5mm platform, 4mm height	PY4008L	PY4018L	PY4028L
3.5mm platform, 5.5mm height	PY5508L	PY5518L	PY5528L
4.5mm platform, 4mm height	PG4008L	PG4018L	PG4028L
4.5mm platform, 5.5mm height	PG5508L	PG5518L	PG5528L
5.7mm platform, 4mm height	PB4008L	PB4018L	PB4028L
5.7mm platform, 5.5mm height	PB5508L	PB5518L	PB5528L



Designed primarily for posterior restorations when abutment modification is not required. Packaged with an abutment screw (PXAS) and Healing Cap that can serve as a temporary. Titanium Alloy. Final torque: 30Ncm.

## Simple Solutions Restorative Packs

- SYRP40 3.5mm platform, 4mm height
- SYRP55 3.5mm platform, 5.5mm height
- SGRP40 4.5mm platform, 4mm height
- SGRP55 4.5mm platform, 5.5mm height
- SBRP40 5.7mm platform, 4mm height
- SBRP55 5.7mm platform, 5.5mm height



Conveniently includes the impression and lab components needed to restore a Simple Solutions abutment. Includes a snap cap impression transfer, one crown waxing sleeve, one bridge waxing sleeve and an implant/abutment replica for the working cast.

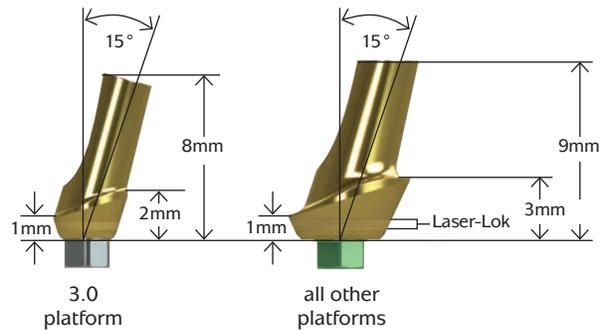


L02015-012 Simple Solutions snap-cap impression technique module

# ESTHETIC & CEMENTABLE ABUTMENTS

## Angled Esthetic Abutments

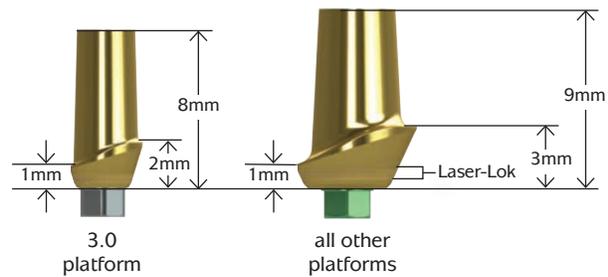
	Laser-Lok	standard
3.0mm platform	TP3AEAL	TP3AEA
3.5mm platform	PYAEAL	PYAEA
4.5mm platform	PGAEAL	PGAEA
5.7mm platform	PBAEAL	PBAEA



Use to create a cement-retained, single- or multiple-unit prostheses. When a Laser-Lok component is used and temporarily removed, keep the component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy. TiN coated for esthetics. Final torque: 30Ncm.

## Straight Esthetic Abutments

	Laser-Lok	standard
3.0mm platform	TP3SEAL	TP3SEA
3.5mm platform	PYSEAL	PYSEA
4.5mm platform	PGSEAL	PGSEA
5.7mm platform	PBSEAL	PBSEA

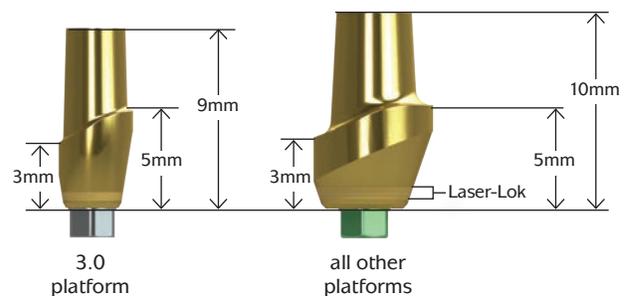


Use to fabricate cement-retained, single- or multiple-unit prostheses. When a Laser-Lok component is used and temporarily removed, keep the component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy. TiN coated for esthetics. Final torque: 30Ncm.

-  L02015-023 Cement-retained single crowns using cementable abutments module
-  L02015-025 Chairside modification of cement-retained abutments module

## Straight Esthetic Abutments (3mm buccal height)

	Laser-Lok	standard
3.0mm platform	TP3SEA3L	TP3SEA3
3.0mm platform	TP3WSEA3L (wide)	TP3WSEA3 (wide)
3.5mm platform	PYSEA3L	PYSEA3
4.5mm platform	PGSEA3L	PGSEA3
5.7mm platform	PBSEA3L	PBSEA3



Use to fabricate cement-retained, single- or multiple-unit prostheses when a deep gingival sulcus is present. When a Laser-Lok component is used and temporarily removed, keep the component in sterile saline until reinserting into the site. Packaged with an abutment screw (PXAS). Titanium Alloy. TiN coated for esthetics. Final torque: 30Ncm.

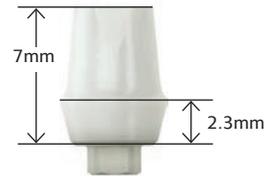
-  L02015-023 Cement-retained single crowns using cementable abutments module
-  L02015-025 Chairside modification of cement-retained abutments module

# ESTHETIC & CEMENTABLE ABUTMENTS

## Ceramic Abutments (Regular Emergence)

- PYRCA 3.5mm platform
- PGRCA 4.5mm platform
- PBRCA 5.7mm platform

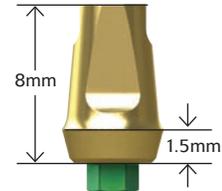
Use to fabricate cement-retained, single- or multiple-unit prostheses. Indicated for anterior, esthetic zone. Packaged with an abutment screw (PXAS), Yttria-stabilized Zirconia. Final torque: 30Ncm.



## 3inOne Abutments (Regular Emergence)

- PYREA 3.5mm platform
- PGREA 4.5mm platform
- PBREA 5.7mm platform

Use to fabricate cement-retained, single- or multiple-unit prostheses. Also used with a Ball-top Screw for a closed-tray, hex-timed transfer. Packaged with an abutment screw (PXAS). Titanium Alloy. TiN coated for esthetics. Final torque: 30Ncm.

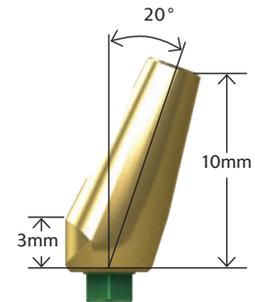


 L02015-024 Cement-retained bridge using cementable abutments module

## Angled Abutments (Regular Emergence)

- PYRAA 3.5mm platform
- PGRAA 4.5mm platform
- PBRAA 5.7mm platform

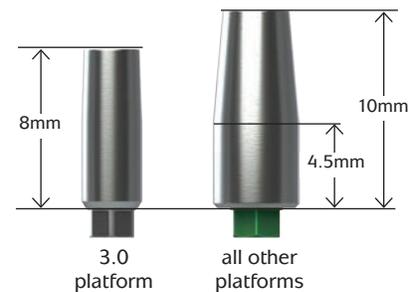
Use to fabricate cement-retained, single- or multiple-unit prostheses. Packaged with an abutment screw (PXAS). Titanium Alloy. TiN coated for esthetics. Final torque: 30Ncm.



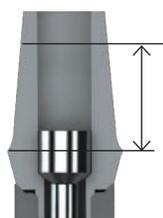
## Narrow Emergence Abutments

- TP3SA 3.0mm platform
- PYNEA 3.5mm platform
- PGNEA 4.5mm platform
- PBNEA 5.7mm platform

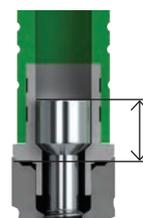
Use to fabricate cement-retained, single- or multiple-unit prostheses. Packaged with an abutment screw (PXAS). Titanium Alloy. Final torque: 30Ncm.



### Note

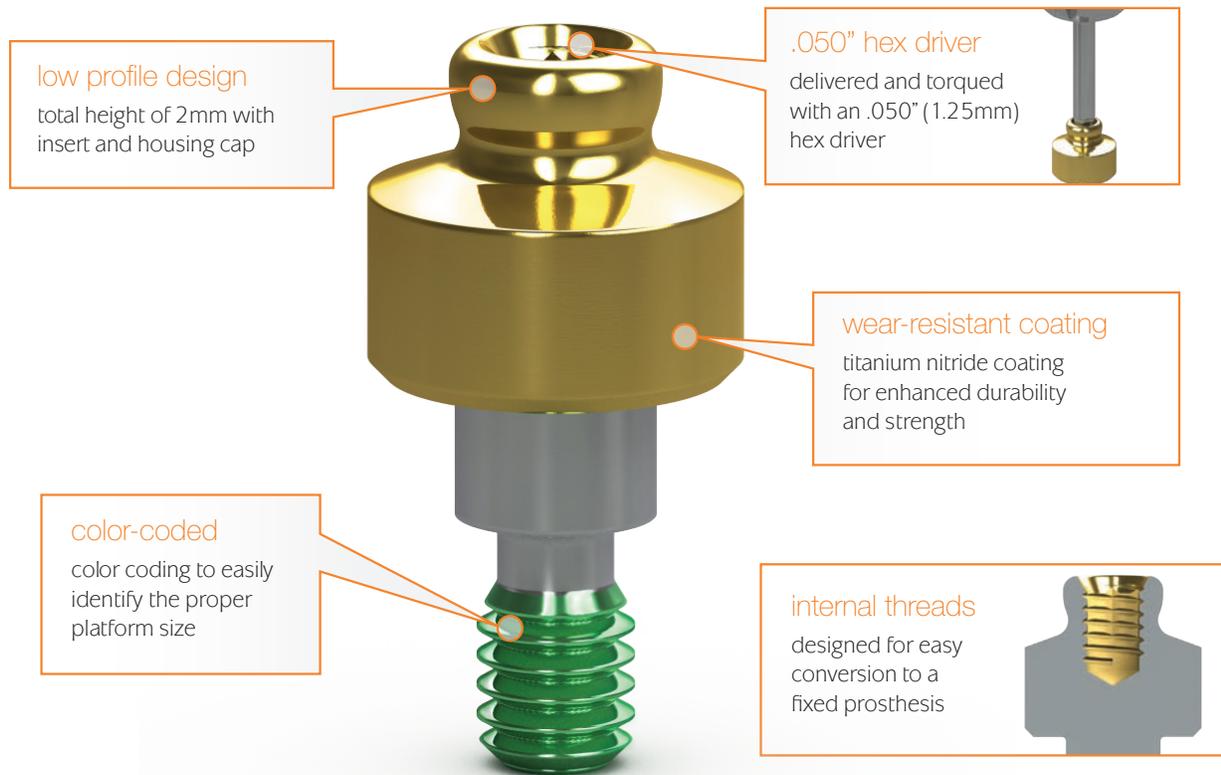


For cement-retained restorations, maintain at least 4mm of chimney height from the margin for optimal cement retention.

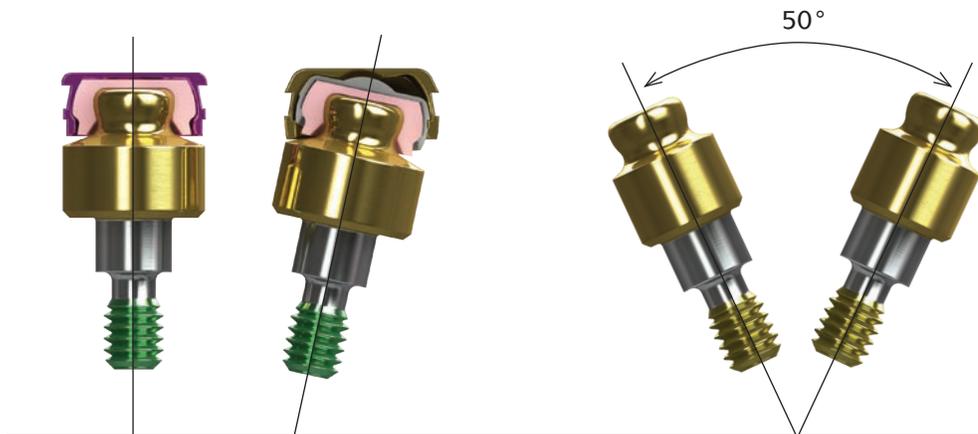


For screw-retained restorations, maintain at least 3mm from the abutment platform to avoid damaging the abutment screw.

The OD Secure abutment uses the industry's lowest profile connection to attach dentures and partial dentures to dental implants. The abutment is designed for easy delivery using an .050" hex driver and is color-coded to ensure that the abutment matches the implant platform every time.



With cuff heights ranging from 0.5mm to 6mm, the OD Secure provides attachment solutions for even the most challenging cases.



The housing cap that is included with each OD Secure abutment corrects up to 15° of divergence. The new Xtend housing cap corrects up to 25° of divergence and is compatible with the retention caps included in the OD Secure abutment kit.

# OD SECURE ABUTMENTS & COMPONENTS

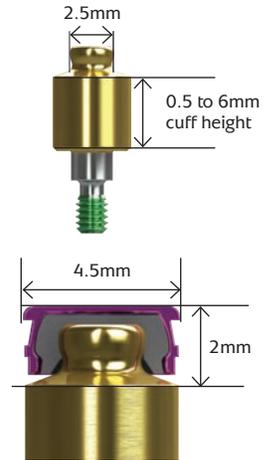
## OD Secure Abutment System

The OD Secure comes packaged with the abutment, metal housing, four retentive inserts, a lab processing insert and a protection disk.



- L02015-040 OD Secure impression technique module
- L02015-041 OD Secure chairside pick-up using existing denture module

	3.0mm platform	3.5mm platform	4.5mm platform	5.7mm platform
0.5mm cuff height	TP3ODSK0	PYODSK0	PGODSK0	PBODSK0
1mm cuff height	TP3ODSK1	PYODSK1	PGODSK1	PBODSK1
2mm cuff height	TP3ODSK2	PYODSK2	PGODSK2	PBODSK2
3mm cuff height	TP3ODSK3	PYODSK3	PGODSK3	PBODSK3
4mm cuff height	TP3ODSK4	PYODSK4	PGODSK4	PBODSK4
5mm cuff height	TP3ODSK5	PYODSK5	PGODSK5	PBODSK5
6mm cuff height	TP3ODSK6	PYODSK6	PGODSK6	PBODSK6



## OD Secure Abutment Components

**ODS-XH** Xtend Housing Cap (2pack)  
Xtend Housing Cap assembled with Lab Processing Insert and is used to correct up to 50° of divergence.



**ODS-HCPM** Housing Cap (2pack)  
New pink Housing Cap comes assembled with Lab Processing Insert.



**ODS-XPM** Xtend Lab Processing Insert (4pack)



**ODSRC-P** Retention Cap Insert (4pack)  
Retention: 2.5lbs - Soft



**ODSRC-V** Retention Cap Insert (4pack)  
Retention: 6lbs - Hard



**ODSRC-Y** Retention Cap Insert (4pack)  
Retention: 1.5lbs - Extra Soft



**ODSRC-C** Retention Cap Insert (4pack)  
Retention: 4lbs - Medium



**ODS-CAK** Cap Assortment Kit (2 pack)



**ODS-PM** Lab Processing Insert (4pack)



**ODS-BS** Block-out Spacer (4pack)



**ODSA** OD Secure Analog (2pack)



**ODSIC** Impression Coping (2pack)



**ODSCM** Castable Male (2pack)



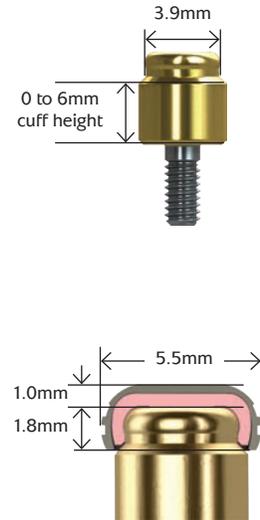
**ODSCT** Cap Insert/Extractor Tool



# LOCATOR ABUTMENTS

## Locator Abutments

	3.0mm platform	3.5mm platform	4.5mm platform	5.7mm platform
0mm cuff height	not available	PYLA0	PGLA0	not available
1mm cuff height	TP3LA1	PYLA1	PGLA1	PBLA1
2mm cuff height	TP3LA2	PYLA2 (2.5mm)	PGLA2	PBLA2
3mm cuff height	TP3LA3	PYLA3 (3.5mm)	PGLA3	PBLA3
4mm cuff height	TP3LA4	PYLA4 (4.5mm)	PGLA4	PBLA4
5mm cuff height	TP3LA5	PYLA5 (5.5mm)	PGLA5	PBLA5
6mm cuff height	TP3LA6	PYLA6 (6.5mm)	PGLA6	PBLA46



Locator Implant Attachments are designed for use with overdentures or partial dentures retained in whole or in part by dental implants in the mandible or maxilla. Order by cuff height to match the height of the gingival tissue. The abutment will extend above the tissue by 1.8mm to allow the Locator Male to seat completely. Order one Locator Male Processing Set for each Locator Abutment (sold in packs of 2 or 10). Can also be used with tissue-level implants. Titanium Alloy.

The Male Processing Package provides 3 choices of retention. The Replacement Males (clear, pink and blue) are used to restore implants with up to 10° of divergence (20° between implants). The Extended Range Replacement Males (green and red) accommodate divergences from 10° and 20° (40° between implants), and may be purchased separately.



- L02015-013** Locator® abutment impression technique module
- L02015-032** Locator® abutment overdenture: chairside pickup using existing denture

## Locator Components

### LCT Core Tool

Multi-purpose tool serves as hand driver for seating Locator Abutments onto the implants, seating tool for nylon male inserts and insert removal tool.  
*Note: now packaged with one Locator Abutment Holder Sleeve.*



### LAHS Locator Abutment Holder Sleeve (4 pack)

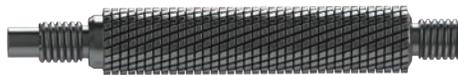
Use to retain and deliver the Locator Abutment using the driver portion of the Core Tool.



### Locator core tool instructions



**Male retention insert removal tool**  
 For removing the male retention inserts from the metal housing



**Male retention insert tool**  
 For placing the male retention inserts into the metal housing



**Hand driver**  
 For hand tightening the Locator abutment



**Locator abutment holder**  
 For retaining and delivering the Locator abutment using the hand driver portion of the core tool.

# LOCATOR COMPONENTS

## Locator Components

**LMPP-2 Male Processing Package (2 pack)**  
Includes: (2) Denture Caps assembled with Black Processing Males; (2) White Block-out Spacers; (2) Clear, (2) Pink and (2) Blue Nylon Males.



**LMPP-10 Male Processing Package (10 pack)**  
Includes: (10) Denture Caps assembled with Black Processing Males; (10) White Block-out Spacers; (10) Clear, (10) Pink and (10) Blue Nylon Males.

**LMPPER-2 Male Processing Package, Extended Range (2 pack)**  
Includes: (2) Denture Caps assembled with Black Processing Males; (2) White Block-out Spacers; (2) Green, (2) Orange and (2) Red Nylon Males.



**LMPPER-10 Male Processing Package, Extended Range (10 pack)**  
Includes: (10) Denture Caps assembled with Black Processing Males; (10) White Block-out Spacers; (10) Green, (10) Orange and (10) Red Nylon Males.

**LRM-G Extended Range Replacement Male (green)**  
Retention: 4lbs, 4 pack



**LRM-C Replacement Male (clear)**  
Retention: 5lb, 4 pack



**LRM-O Extended Range Replacement Male (orange)**  
Retention: 2lbs, 4 pack



**LRM-P Replacement Male (pink)**  
Retention: 3lb, 4 pack



**LRM-R Extended Range Retention Replacement Male (red)**  
Retention: 1lbs, 4 pack



**LRM-B Replacement Male (blue)**  
Retention: 1.5lb, 4 pack



**LRM-Z Extended Range Replacement Male (gray)**  
Retention: 0lb, 4 pack



**LBPRM Black Processing Replacement Male**



**LFA-4MM Female Analog 4mm (4 pack)**  
Use for 3.0, 3.5 and 4.5 platforms



**LSDT-15MM Square Drive Tool (15mm length)**  
Use with a torque wrench to seat Locator Abutments.



**LFA-5MM Female Analog 5mm (4 pack)**  
Use for 5.7 platform

**LSDT-21MM Square Drive Tool (21mm length)**  
Use with a torque wrench to seat Locator Abutments.

**LIC Impression Coping (4 pack)**



**LPP Parallel Post (4 pack)**



**LAMG Angle Measurement Guide**



# LOCATOR R-TX ABUTMENTS

## Locator R-Tx Abutments

Locator R-Tx is a better, simpler and stronger system that relies on the same restorative techniques as the original Locator. Now available with the housing cap, spacer and retentive inserts for a convenient all-in-one package.

Each Assembly includes: (1) Abutment, (1) Denture Attachment Housing with Black Processing Insert, (4) Nylon Retention Inserts, and (1) Block-out Spacer.



	3.0mm platform	3.5mm platform	4.5mm platform	5.7mm platform
0.5mm cuff height	not available	PYLRTX0	PGLRTX0	not available
1mm cuff height	TP3LRTX1	PYLRTX1	PGLRTX1	PBLRTX1
2mm cuff height	TP3LRTX2	PYLRTX2	PGLRTX2	PBLRTX2
3mm cuff height	TP3LRTX3	PYLRTX3	PGLRTX3	PBLRTX3
4mm cuff height	TP3LRTX4	PYLRTX4	PGLRTX4	PBLRTX4
5mm cuff height	TP3LRTX5	PYLRTX5	PGLRTX5	PBLRTX5
6mm cuff height	TP3LRTX6	PYLRTX6	PGLRTX6	PBLRTX6

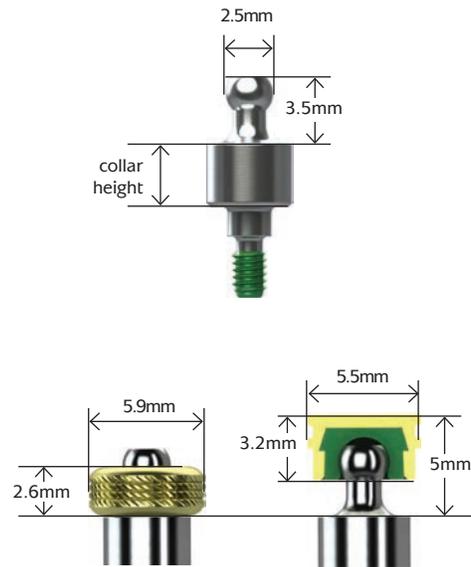
## Locator R-Tx Components

LRTX-GY	Zero Retention Insert Replacement (4pack)		LRTX-PM	Processing Insert Replacement (4pack)	
LRTX-B	Low Retention Insert Replacement (4pack)		LRTX-PS	Processing Spacer Replacement (4pack)	
LRTX-P	Medium Retention Insert Replacement (4pack)		LRTX-IC	Impression Coping (4pack)	
LRTX-C	High Retention Insert Replacement (4pack)		LRTX-A3	3.5mm Abutment Analog (4pack)	
LRTX-BS	Block-Out Spacer Replacement (20pack)		LRTX-A4	4mm Abutment Analog (4pack)	
LRTX-DC	Denture Attachment Processing Assembly (4pack)		LRTX-A5	5mm Abutment Analog (4pack)	
LRTX-TL	Locator R-Tx Insertion/Removal Tool				

# BALL ABUTMENTS

## Ball Abutments

TP3BA1	3.0mm platform, 1mm collar height
TP3BA3	3.0mm platform, 3mm collar height
TP3BA5	3.0mm platform, 5mm collar height
PYBA1	3.5mm platform, 1mm collar height
PYBA3	3.5mm platform, 3mm collar height
PYBA5	3.5mm platform, 5mm collar height
PGBA1	4.5mm platform, 1mm collar height
PGBA3	4.5mm platform, 3mm collar height
PGBA5	4.5mm platform, 5mm collar height
PBBA1	5.7mm platform, 1mm collar height
PBBA3	5.7mm platform, 3mm collar height



Sizing comparison of O-ring Attachment and Ball Attachment

Use for retention of tissue-supported overdentures. Ball Abutments may be used for indirect transfer impressions. Ball Abutment Analogs on facing page are used for producing a working cast. Can also be used with tissue-level implants. Titanium Alloy.



- L02015-014 Ball abutment impression technique
- L02015-033 Ball abutment overdenture: chairside pickup using existing denture

## O-ring Attachment Set

### 260-100 O-ring Attachment Set

Standard O-ring attachment for processing into denture. Includes: (1) O-ring encapsulator, (2) Processing O-rings and (2) Clinical O-rings. Recommended for relatively parallel implants (5° of divergence or 10° between implants).



## O-ring Individual Components

### 260-300 O-ring Encapsulator

Female receptacle processed into denture. Titanium. 2 per package.



### 260-220 Processing O-ring

Use for lab processing applications. Buna. 12 per package.



### 260-210 Clinical O-ring

Use for clinical applications. Silicone. 12 per package.



# BALL ABUTMENT COMPONENTS

## Ball Attachment Set

### BCAS Ball Attachment Set

Includes: (1) Titanium Housing, (3) Female Nylon Inserts - white (more retention), pink (less retention), black (lab processing) and (1) Protective Disk (BCPD, protects tissue during impression making or denture pick-up)



The Ball Attachment system offers several advantages over traditional O-ring attachments:

- Greater abutment angulation (14° of divergence or 28° between implants)
- 0.4mm of less mesial/distal/buccal/lingual space
- Four different levels of retention instead of one

## Ball Abutment Components

**BCAHT Attachment Housings - Titanium**  
For Resin pickup or Soldering.  
2 per package.



**BCIY Yellow Nylon Insert**  
Clinical use. 2 per package.  
Very elastic retention: 500-550g



**BCIB Black Nylon Insert**  
Lab Processing and Chair-side  
Denture Pick-up. 2 per package.



**BCIP Pink Nylon Insert**  
Clinical use. 2 per package.  
Elastic retention: 800-950g



**BCIG Green Nylon Insert**  
Clinical use. 2 per package.  
Extremely elastic retention.



**BCIW White Nylon Insert**  
Clinical use. 2 per package.  
Slightly elastic retention: 1200-1300g



**BCIST Insert Seating Tool**  
Use to seat nylon inserts in attachment housings.



**BCDR Directional Rings**  
Use for obtaining parallelism. 0°  
7° and 14° rings. Set of 3.



**BCR Reamer**  
Use to adjust retention of nylon inserts.



## Ball Abutment Analogs

- TP3BAA 3.0mm Ball Abutment Analog**
- PYGBAA 3.5/4.5mm Ball Abutment Analog**
- PBBAA 5.7mm Ball Abutment Analog**

Use at lab to represent the Ball Abutment/Implant assembly in the working cast. Only use in conjunction with Ball Abutments. Titanium Alloy.



# PROSTHETIC INSTRUMENTATION

## Prosthetic Kit

- PROS3000 Enhanced Prosthetic Instrumentation Kit**  
Includes:
- .050 (1.25mm) Manual Hex Driver
  - .050 (1.25mm) Manual Hex Driver, Long
  - .050 (1.25mm) Handpiece Hex Driver
  - .050 (1.25mm) Handpiece Hex Driver, Long
  - .050 (1.25mm) 4mm Square Hex Driver
  - .050 (1.25mm) 4mm Square Hex Driver, Long
  - Hand Wrench
  - 4mm Square Drive Extender
  - 4mm Square Multi-unit Hex Adapter
  - 12 Try-in Abutment Slots
  - 8 Optional Instrument Slots
  - Space for Torque Wrenches & AS123 Hand Unit
- Multi-unit Try-in Abutments, 300-100 and ATW are sold separately.*



- PROS2500 Prosthetic Instrumentation Tray (not shown)**  
Tray without instruments (included with PROS3000)

- 300-100\* AS123 Hand Unit**  
Provides improved vision and easy access to prosthetic components in posterior regions of the mouth. Hand Wrench and Drivers are sold separately.



- 300-400\* Hand Wrench**  
Use on drive end of AS123 Hand Unit. Also fits individual Hex Drivers/Adapters and Bone Taps.



- 300-206\* 4mm Square Drive Extender**  
Replaced 300-205 starting in June 2010. Includes PEEK C-ring for durable retention in Ratchet. Cannot be used with bone taps.



## Torque Wrenches

- BIOTORO BioHorizons Adjustable Torque Wrench**  
Adjustable torque wrench designed to attach to all 4mm drivers from BioHorizons. Supplied with a dual direction mechanism that allows for insertion and removal functions. When the desired torque is reached (a choice of 10Ncm to 30Ncm) the torque wrench snaps to avoid over torquing.



- ATW ITL Precise Adjustable Torque Wrench**  
Place both implants and abutments with 9 distinct torque settings (15, 20, 25, 30, 35, 40, 45, 50 and 60 Ncm). A simple twist of the handle locks in precision-engineered torque values and guarantees accuracy and repeatability.



- EL-C12374 Elos Adjustable Torque Wrench**  
Lightweight titanium design is easy to use as an adjustable torque wrench or a ratchet. Quickly disassembles for cleaning. No calibration required.



- EL-C8521 Elos Replacement Bit, 4mm Square Adapter**

- EL-C8381 Elos Replacement Bit, Handpiece**

- AGYR-15500 Torque Control 15500**  
Ergonomic design is the ideal solution for access to screws placed in the posterior. The 7 predetermined torque values (10, 15, 20, 25, 30, 32 and 35 Ncm) make it a tool of extreme precision.

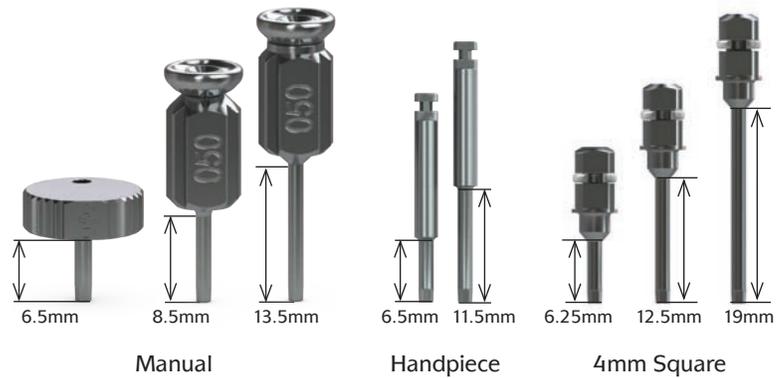


\* Instrument o-rings & c-rings wear out over time. If an instrument is no longer held securely by its associated driver, order a replacement ring through Customer Care.

# PROSTHETIC INSTRUMENTATION

## .050" (1.25mm) Hex Drivers

- 135-251 Manual Hex Driver, Short
- 135-351 Manual Hex Driver
- 135-451 Manual Hex Driver, Long
- 134-350 Handpiece Hex Driver
- 134-450 Handpiece Hex Driver, Long
- 300-350\* 4mm Square Hex Driver
- 300-351\* 4mm Square Hex Driver, Long
- 300-354\* 4mm Square Hex Driver, Extra Long



For installation and removal of cover caps, prosthetic and abutment screws.

## Abutment Prepping Handles

- TP3AH 3.0mm platform Analog Handle
- PYGAH 3.5/4.5mm platform Analog Handle
- PBAH 5.7mm platform Analog Handle



Use to comfortably hold abutments for chairside or laboratory preparation. Abutments are secured to the handle with a standard abutment screw (PXAS). Comes in three sizes: 3.0, 3.5/4.5 and 5.7mm.

## Laser-Lok Tissue Groomer

- TP3TG 3.0mm platform
- PYTG 3.5mm platform
- PGTG 4.5mm platform
- PBTG 5.7mm platform



Used to lightly abrade soft tissue prior to placement of a Laser-Lok abutment, if a Laser-Lok abutment has not been used before.



**L02015-003** Handling of Laser-Lok abutment

## Clean-out Tap Tools

- PXCT\* Implant Clean-out Tap Tool

Use PXCT to re-thread internal connection implants (Tapered Internal, Internal, Laser-Lok 3.0, Tapered Tissue Level and Single-stage), and 122-170 to re-thread Abutment for Screw abutments where the internal threads have become damaged. Requires a standard surgical Ratchet (130-000) or Hand Wrench (300-400) as a drive mechanism.



\* Instrument o-rings & c-rings wear out over time. If an instrument is no longer held securely by its associated driver, order a replacement ring through Customer Care.

# PROSTHETIC PLATFORM IDENTIFICATION

## Prosthetic Platform Color Coding

BioHorizons prosthetic components are color-coded to match BioHorizons implant prosthetic platforms. To ensure compatibility:

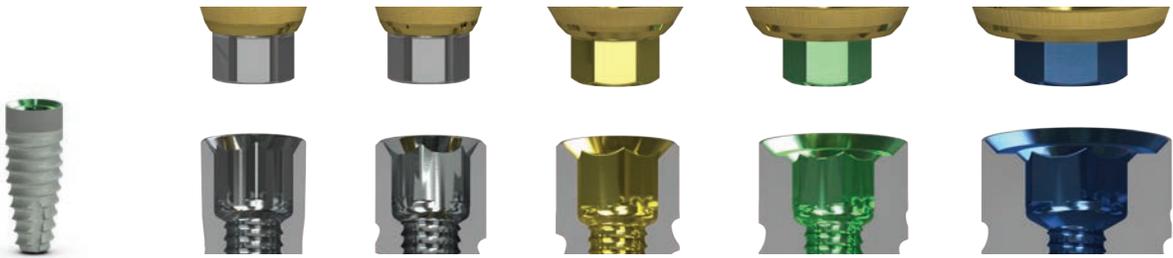
- (1) determine the BioHorizons implant system from the patient's record (e.g. Tapered, Tapered Plus, Tapered Tissue Level)
- (2) verify that the prosthetic component is intended for that system
- (3) match the restorative component color with the implant prosthetic platform.

### Tapered Internal Plus Implant System



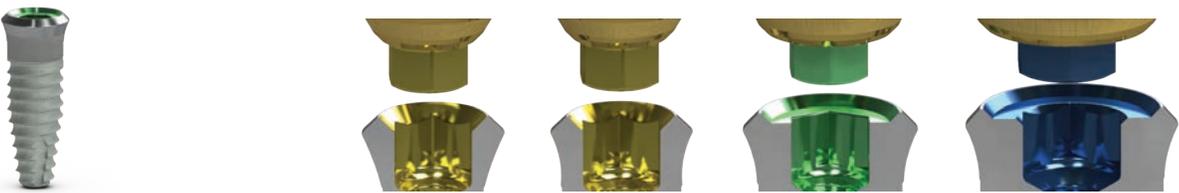
prosthetic connection	3.0mm	3.5mm	4.5mm
body diameter	3.8mm	4.6mm	5.8mm

### Tapered Internal Implant System



prosthetic connection	3.0mm	3.0mm	3.5mm	4.5mm	5.7mm
body diameter	3.0mm	3.4mm	3.8mm	4.6mm	5.8mm

### Tapered Tissue Level Implant System



prosthetic connection	3.5mm	3.5mm	4.5mm	5.7mm
body diameter	3.0mm	3.8mm	4.6mm	5.8mm

Note: BioHorizons Internal prosthetic components are indicated for use with Zimmer Screw-Vent® and Tapered Screw-Vent® implant systems.

## SUPPORT MATERIAL & REFERENCES

### Restorative Support Material

L02015	Prosthetic Technique Manual (Interactive PDF)
ML0161	Tapered Family Prosthetic Reference
ML0206	Impression Technique Guide (PDF only)
L01022	Multi-unit Catalog and Manual
L01021	TeethXpress Technique Guide
EP-TXMOD	TeethXpress Patient Education Model
L02007	Simple Solutions Abutments with Laser-Lok Catalog and Manual (PDF only)
L01016	Restoring BioHorizons or Zimmer Implants with Simple Solutions Abutments (PDF only)
ML0155	BioHorizons Ceramic Abutments (PDF only)
ML0103	Dental Implants - Patient Education Brochure, 50 pk
ML0131	Dental Implants - Patient Education Flipbook
ML0114	Overdenture Patient Education Brochure, 50 pk
ML0615	Laser-Lok Abutment Study by Myron Nevins, DDS (PDF only)
ML0159	Connective Tissue Attachment to Laser - Microgrooved Abutments
ML0160	Reattachment of Connective Tissue Fibers to a Laser - Microgrooved Abutment Surface
SPMP14235	Electronic Dental Implant Patient Record (PDF only)

### References

1. Human histologic evidence of a connective tissue attachment to a dental implant. M Nevins, ML Nevins, M Camelo, JL Boyesen, DM Kim. *International Journal of Periodontics & Restorative Dentistry*. Vol. 28, No. 2, 2008.
2. The effects of laser microtextured collars upon crestal bone levels of dental implants. S Weiner, J Simon, DS Ehrenberg, B Zweig, JL Ricci. *Implant Dentistry*. Volume 17, Number 2, 2008. p. 217-228.
3. Influence of a microgrooved collar design on soft and hard tissue healing of immediate implantation in fresh extraction sites in dogs. SY Shin, DH Han. *Clin. Oral Impl. Res.* 21, 2010; 804-814.
4. Maintaining inter-implant crestal bone height via a combined platform-switched, Laser-Lok® implant/abutment system: A proof-of-principle canine study. M Nevins, ML Nevins, L Gobbato, HJ Lee, CW Wang, DM Kim. *Int J Periodontics Restorative Dent.* Volume 33, Number 3, 2013.
5. Histologic evidence of a connective tissue attachment to laser microgrooved abutments: A canine study. M Nevins, DM Kim, SH Jun, K Guze, P Schupbach, ML Nevins. *International Journal of Periodontics & Restorative Dentistry*. Vol. 30, No. 3, 2010.
6. Histologic evidence of connective tissue integration on laser microgrooved abutments in humans. NC Geurs, PJ Vassilopoulos, MS Reddy. *Clinical Advances in Periodontics*. Vol. 1, No. 1, May 2011.
7. Connective tissue attachment to laser microgrooved abutments: A human histologic case report. M Nevins, M Camelo, ML Nevins, P Schupbach, DM Kim. *Int J Periodontics Restorative Dent.* Volume 32, Number 4, 2012. p. 384-392.
8. Reattachment of the connective tissue fibers to the laser microgrooved abutment surface. M Nevins, M Camelo, ML Nevins, P Schupbach, DM Kim. *Int J Periodontics Restorative Dent.* Volume 32, Number 4, 2012. e131-134.
9. The impact of dis-/reconnection of laser microgrooved and machined implant abutments on soft- and hard-tissue healing. Iglhaut G, Becker K, Golubovic V, Schliephake H, Mihatovic I. *Clin Oral Implants Res.* 2013 Apr;24(4):391-7.
10. Heat production by 3 implant drill systems after repeated drilling and sterilization. Chacon GE, Bower DL, Larsen PE, McGlumphy EA, Beck FM. *J Oral Maxillofac Surg.* 2006 Feb;64(2):265-9.

# ORDERING & WARRANTY INFORMATION

**Territory Manager:** \_\_\_\_\_

**cell phone:** \_\_\_\_\_

**email and/or fax:** \_\_\_\_\_

**BioHorizons Lifetime Warranty on Implants and Prosthetics:** All BioHorizons implants and prosthetic components include a Lifetime Warranty. BioHorizons implant or prosthetic components will be replaced if removal of that product is due to failure (excluding normal wear to overdenture attachments).

**Additional Warranties:** BioHorizons warranties surgical drills, taps and other surgical and restorative instruments.

**(1) Surgical Drills and Taps:** Surgical drills and taps include a warranty period of ninety (90) days from the date of initial invoice. Surgical instruments should be replaced when they become worn, dull, corroded or in any way compromised. Surgical drills should be replaced after 12 to 20 osteotomies.<sup>10</sup>

**(2) Instruments:** The BioHorizons manufactured instrument warranty extends for a period of one (1) year from the date of initial invoice. Instruments include drivers, implant site dilators and BioHorizons tools used in the placement or restoration of BioHorizons implants.

**Return Policy:** Product returns require a Return Authorization Form, which may be acquired by contacting Customer Care. The completed Return Authorization Form must be included with the returned product. For more information, please see the reverse side of the invoice that was shipped with the product.

**Disclaimer of Liability:** BioHorizons products may only be used in conjunction with the associated original components and instruments according to the Instructions for Use (IFU). Use of any non-BioHorizons products in conjunction with BioHorizons products will void any warranty or any other obligation, expressed or implied.

Treatment planning and clinical application of BioHorizons products are the responsibility of each individual clinician. BioHorizons strongly recommends completion of postgraduate dental implant education and adherence to the IFU that accompany each product. BioHorizons is not responsible for incidental or consequential damages or liability relating to use of our products alone or in combination with other products other than replacement or repair under our warranties.

**Distributed Products:** For information on the manufacturer's warranty of distributed products, please refer to their product packaging. Distributed products are subject to price change without notice.

**Validity:** Upon its release, this literature supersedes all previously published versions.

**Availability:** Not all products shown or described in this literature are available in all countries. BioHorizons continually strives to improve its products and therefore reserves the right to improve, modify, change specifications or discontinue products at any time.

Any images depicted in this literature are not to scale, nor are all products depicted. Product descriptions have been modified for presentation purposes. For complete product descriptions and additional information, visit [store.biohorizons.com](http://store.biohorizons.com).

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## Distributors

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