

CAM StructSURE® Precision Milled Bars And Frameworks

Procedure And Laboratory Manual



Hader or Dolder® Bar



Fixed-Hybrid Bar



Primary Bar



Copy Milled Bar Or Framework



Expanded Interface Controlitisty

New Design Features Inside!





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CAM StructSURE® Precision Milled Bars And Frameworks

CAD/CAM Patient Specific Restorations® are the future of restorative implant dentistry and BIOMET *3i*'s ARCHITECH PSR® Family Of Products is leading the way with CAM StructSURE Precision Milled Bars And Frameworks. This leading-edge technology advances superstructures by offering simple laboratory procedures for implant overdentures, fixed-hybrid prostheses and fixed bridgework. With precision difficult to match using conventional laboratory techniques, CAM StructSURE Precision Milled Bars And Frameworks provide a one-piece milled titanium alloy or pure titanium structure with an impressive passive fit. The strength from a one-piece design reduces the potential for weakness that may be caused by soldering or laser welded joints. The result is a durable restoration with a precise fit.

Better For Your Patients. Better For Your Practice®

- Truly Passive Fit
- Superior Strength Compared To Conventional Cast Techniques
- No Soldered Or Welded Joints
- · Light-Weight
- Available For Most Major Brand Implant Or Abutment Interfaces

Better For The Laboratory

- CAD/CAM Precision
- No Capital Investment
- No Waxing And Casting
- No Soldering Or Welding
- · Laboratory Design Control

Product Description

CAM StructSURE Precision Milled Bars And Frameworks are superstructures for implant overdentures, fixed-hybrid prostheses or fixed bridgeworks. These products are made from strong biocompatible titanium alloy or pure titanium and can be manufactured on most major brand implant and abutment interfaces. BIOMET 3i designs the CAM StructSURE Precision Milled Bars in CAD from a laboratory submitted work order form and then e-mails the design to the dental laboratory for design verification. Following a 24 hour laboratory preview period, the CAD design is transferred to a dedicated milling machine for bar fabrication. The overdenture bar is polished and ready for denture processing or the addition of porcelain or acrylic resin with no further finishing required by the laboratory.

Virtual Design

BIOMET *3i* offers virtual design and milling of bars for laboratory technicians who wish to minimize their labor when fabricating overdenture and fixed-hybrid restorations. The design work from the technician is done only on the work order form. BIOMET *3i* Design Technicians create the specified design in CAD within the confines of the wax prosthesis to fit the master cast. The design is verified by the laboratory technician prior to milling.

Copymilled Design

Laboratory technicians can create their own unique bar or framework design with a resin pattern and send it to BIOMET 3i with the master cast to be scanned and milled. Using a copymilling technique, BIOMET 3i creates a one-piece, titanium alloy replica of the design provided to fit the master cast.

Indications

- Implant or abutment level interfaces (see compatibility chart on page three)
- For use on implant overdentures, fixed-hybrid and fixed bridgework prostheses with two – ten implants
- Parallel and divergent implants up to 30°

- Equal or less than 4mm of tissue depth
- Equal or greater than 7mm of interarch space
- Multiple implants with a minimum of 2mm of space between implants



Interface Compatibility Chart

Description	Analog	Screw	Description	Analog	Screw
BIOMET 3i®			Keystone/Lifecore		
Certain® 3.4 Implant	IMMILA	ILRGHG, ILRGHT	External Hex 3.3 Implant	R9893-34	R9203-34-48
Certain 4.1 Implant	IILA20	ILRGHG, ILRGHT	External Hex 3.75 Implant	R9891-40	R9202-40-48
Certain 5.0 Implant	IILAW5	ILRGHG, ILRGHT	External Hex 4.1 Implant	R9891-40	R9202-40-48
Certain 6.0 Implant	IILAW6	ILRGHG, ILRGHT	External Hex 5.0 Implant	R9893-50	R9203-50-48
External Hex 3.4 Implant	MMILA	UNISG, UNIHG, UNIHT	External Hex 6.0 Implant	R9893-50	R9203-50-48
external Hex 4.1 Implant	ILA20	UNISG, UNIHG, UNIHT	Lifecore Prima 3.3 Internal Implant	45140K	45060K
External Hex 5.0 Implant	ILAW5	UNISG, UNIHG, UNIHT	Lifecore Prima 4.0 Internal Implant	45141K	45060K
External Hex 6.0 Implant	ILAW6	UNISG, UNIHG, UNIHT	Lifecore Prima 5.0 Internal Implant	45142K	45060K
Standard Abutment	SLA20	GSH30, GSH70	Prima Connex Multi 3.9 Abutment	45160K	45164K
OL® Abutment	IOLLAS	GSH30, GSH70	Fixed Detachable Abutment	410530-4	R9460-48
Conical 3.4 Abutment	MMCLA	GSH30, GSH70	Nobel Biocare™		
Conical 4.1 Abutment	CLA20	GSH30, GSH70	Brånemark System® Mk III 3.3 NP Implant	31158	29282
Conical 5.0 Abutment	CLA20	GSH30, GSH70	Brånemark System Mk III 4.1 RP Implant	31159	29283
Conical 6.0 Abutment	WCLA6	GSH30, GSH70	Brånemark System Mk III 5.0 WP Implant	31160	29284
re-Angled Conical 17° Abutment	CLA20	GSH30, GSH70	Replace® Select 3.5 NP Implant	29498	29474
re-Angled Conical 25° Abutment	CLA20	GSH30, GSH70	Replace Select 4.3 RP Implant	29500	29475
ENTSPLY Friadent®		,	Replace Select 5.0 WP Implant	29502	29475
nkylos Plus 3.5 Implant	3104 5270	3102 1505	Replace Select 6.0 WP Implant	29995	29475
nkylos Plus 4.5 Implant	3104 5272	3102 1505	Replace HL™ 4.5 External Hex Implant	43714	2699
nkylos Plus 5.5 Implant	3104 5274	3102 1505	Replace HL 5.0 External Hex Implant	5052	2699
IVE S 3.4 Implant	45-4030	45-4305	NobelActive™ Internal 3.5 NP Implant	34243	31171
IVE S 3.8 Implant	45-4040	45-4305	NobelActive Internal 4.3 RP Implant	34244	28815
IVE S 4.5 Implant	45-4050	45-4305	NobelActive Internal 5.0 RP Implant	34244	35260
IVE S 5.5 Implant	45-4060	45-4305	PME 4.5 Abutment	DCB-1750	DCA-074
nkylos Balance Base Abutment	3104-5330	3105-6021	PME 5.0 Abutment	2128	2346
riadent MP 3.4 Abutment	45-4103	45-4206	Standard Abutment	DCB 175-0	DCA-074
riadent MP 3.8 Abutment	45-4103	45-4206	Brånemark System Multi-unit NP Abutment	31161	29285
riadent MP 4.5 Abutment	45-4103	45-4206	Brånemark System Multi-unit RP Abutment	31161	29285
riadent MP 5.5 Abutment	45-4103	45-4206	Brånemark System Multi-unit WP Abutment	31162	29286
straTech			Straumann®		
0° UniAbutment 3.5/4.0	22069	22435	Straumann 3.5 NN Implant	48.130	49.177
20° UniAbutment 4.5/5.0	22069	22435	Straumann 4.8 RN Implant	48.124	49.181
5° UniAbutment 3.5/4.0	22070	22435	Straumann 6.5 WN Implant	48.171	49.181
5° UniAbutment 4.5/5.0	22070	22435	Straumann Bone Level 3.3 NC Implant	25.2101	25.2906
NOTE: 20° and 45° abutments cannot be	e combined in same		Straumann Bone Level 4.1 RC Implant	25.4101	25.4906
ioHorizons®			Straumann Bone Level 4.8 RC Implant	25.4101	25.4906
.5 External Implant	293-000	130-300	SynOcta 4.8 RN Abutment	48.124	048.350V4
.0 External Implant	294-000	140-300	SynOcta 6.5 WN Abutment	48.171	048.350V4
.0 External Implant	295-000	140-300	Zimmer®		
.0 External Implant	296-000	140-300	Advent 4.5 Implant	AVR	AVHLS
3.5 Internal Implant	PYIA	PXAS	Screwvent 3.5 Implant	IA3	MHLAS
.5 Internal Implant	PGIA	PXAS	Screwvent 4.5 Implant	IA4	MHLAS
.7 Internal Implant	PBIA	PXAS	Screwvent 5.7 Implant	IA5	MHLAS
5.0 Internal Implant	PBIA	PXAS	Spline 3.25 Implant	400983	1537
3.5 Abutment	254-600	222-100	Spline 4.0 Implant	04024X9	1537
.0 Abutment	254-600	222-100	Spline 5.0 Implant	10573	1537
i.O Abutment	255-600	222-100	TaperLock 4.1 Implant (Ex Hex)	IAX	GPCAS
AMLOG			Calcitek 4.0 MD Abutment*	*	*
amlog Bar 3.3 Abutment	J3020.4300	J4005.1602	Calcitek Integral 3.25 SD Abutment*	*	*
Camlog Bar 3.8 Abutment	J3020.4300	J4005.1602	Corvent TSA Abutment*	*	*
amlog Bar 4.3 Abutment	J3020.4300	J4005.1602	Corvent TSI Abutment*	*	*
Camlog Bar 5.0 Abutment	J3020.6000	J4005.2002	Tapered 3.5 Abutment	ACTR	SCTS
Camlog Bar 6.0 Abutment	J3020.6000	J4005.2002	Tapered 4.5 Abutment	ACTR	SCTS
Sybron/Innova	11120.0000		Tapered 5.7 Abutment	ACTR	SCTS
Endopore 3.5 External Hex Implant	06M-IA/1	05-2RS	<u>'</u>		
Indopore 4.1 External Hex Implant	06B-IA/1	05-2RS	Please call the manufacturer for all non BIO	MET <i>3i</i> Compone	nts.
ndopore 5.0 External Hex Implant	06WB-IA/1	05-2RS	*Please call Attachments International 800-	999-3003 or 650-	340-0393
Indopore 4.1 Internal Implant	061-PIA	05-2115 05R-2RS	1		

05B-2RS

05B-2RS

07-00522

06I-PIA

06WI-PIA

07-0015

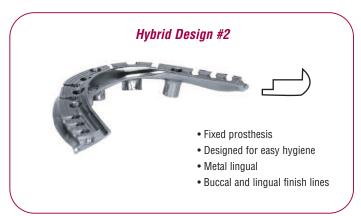
Endopore 4.1 Internal Implant

Endopore 5.0 Internal Implant

UMA 3.9 Abutment

Available CAM StructSURE® Designs



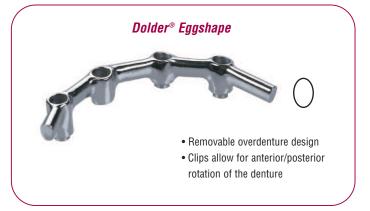








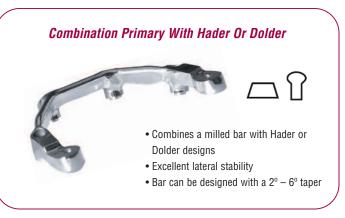


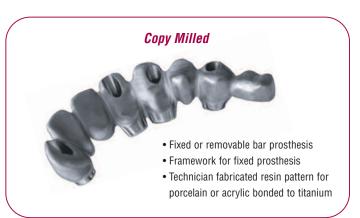




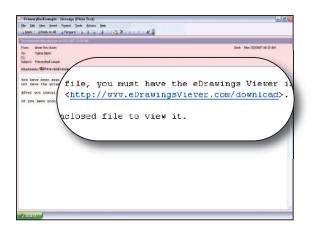








Using eDrawings® Viewer



 You will receive an email from the ARCHITECH PSR® Department. Click on the eDrawing Viewer link to download the software.

This process should take no longer than five minutes to download.



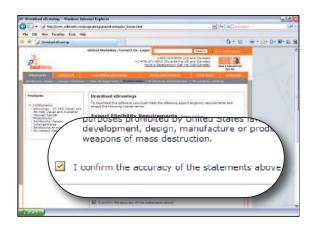
2. On the download eDrawing Viewer screen, select "eDrawing Viewer Only" and click next.



3. On the next screen, click download.



Using eDrawings® Viewer (cont.)



4a. On the "Export Eligibility
Requirements" screen, read and
check the box acknowledging that
you have read the requirement.



4b. Read and accept the software agreement.

Note: Steps 1 thru 4 are necessary for initial software download only.

5. Click to open the image file. Image viewing tools are located on the tool bar.



Zoom Area tool allows you to zoom in. Choose this tool and select the area you want to zoom in to.



Zoom Fit tool reverts back to the original image size.



Zoom tool allows you to zoom in and out of the image with your mouse.



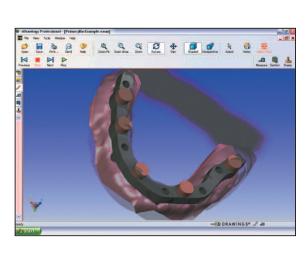
Rotate tool allows you to move the image and view it in 360°.



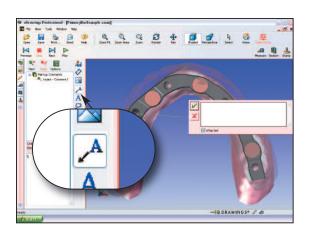
Select the **Pan** tool to move the image two dimensionally on the screen.



Selecting **Home** will take you back to the original image location, if changes have not been saved.

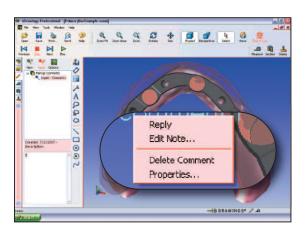


Using eDrawings® Viewer (cont.)



6. Select "text with leader" tool in the markup section to type comments. Click on the portion of the drawing where you desire the comment(s) to be placed and move the mouse slightly away from the desired comment location. Click again to allow for comments to be typed.

Click on the green checkmark to leave a comment. Comment(s) will appear on the screen.



7. If you wish to edit or remove the comment(s) you made, place your mouse cursor over your comment(s) and right click.



8. Once completed, select the "Save As" option under the File tab to save the drawing with your comments.



Using eDrawings® Viewer (cont.)



9. Select "Send" to return the drawing and comments to the BIOMET *3i* ARCHITECH PSR® Department.

Laboratory Work Order Form Instructions

1. Account Information

Please complete this section clearly. All requested information is important to ensure the necessary communication of the desired case design. Please make sure your communication is clear and timely as this is important from receipt to design verification and the delivery of the finished product.

Incomplete information on the work order form or missing case requirements may delay the delivery of the product.

2. Preparing Your Case For Shipment

This section serves as a checklist for the mandatory case contents.

3. Structure Type

The information in this section provides BIOMET *3i* with the desired design of the bar for a particular type of prosthesis.

4. Case Information

This section is important for the scanning and design process. Providing accurate information regarding the tooth position of the implants, implant brand and size or abutment type will expedite the process of order entry, design and completion.

5. Design Instructions

Illustrations of the occlusal view for both a mandible and a maxilla are provided in this section. Please sketch the bar with implant positions and attachment or clip positions. Please use the legend provided.

The following cases will be returned to the laboratory:

- 1. Cases with more than 10 implants
- 2. Greater than 30° of divergence between implants
- 3. Less than 2mm between implants
- 4. Less than 7mm of interarch distance space
- 5. More than 4mm of tissue depth

6. Special Instructions

Please provide any special information necessary to ensure the proper design of the CAM StructSURE® Precision Milled Bar or Framework. This may include path of insertion information or malocclusion. Additional instructions are also welcome. (Please note that additional instructions do not replace the mandatory sections on the prescription form.)

7-8. BIOMET 3i Screw And Attachment Ordering

This section identifies the screw preference and quantity. Please order screws for this case only. Polishing protectors and attachments are also available in this section. If components or screws other than the BIOMET 3i Brand are preferred, the laboratory will be responsible for ordering these from the specific implant or component manufacturer.

9. Certification

The signature denotes that the technician and clinician have verified the master cast for accuracy by trying in a verification index intraorally. Signature is mandatory. BIOMET 3i will not fabricate a CAM StructSURE Precision Milled Bar or Framework without this certification from the laboratory.

Work Orders are also available at www.biomet3i.com

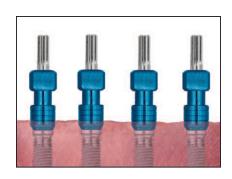


CAM StructSURE® Laboratory Work Order Form

DO NOT PHOTOCOPY - Available online at www.biomet3i.com

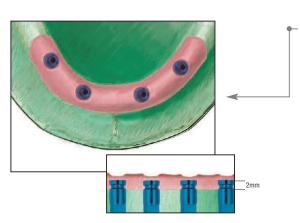
	Information	(Please Pri	int)	*Indicates R	equired Fields	Tap Areas For Attachments Occlusal Taps	Vestibular	Tane	
Customer		•	•			LOCATOR®	Swiss-lo	oc ·	
		:				☐ TSB Ball ☐ Ceka® M3	☐ Lew Pas	no tap drill only	
		-				☐ 1.4mm 0.3 Tap for GSH3 ☐ 2.0mm 0.4 Tap for UNIH ☐ 3.4mm 0.4 Tap for UNIH ☐ 3.4mm 0.4 Tap for UNIH ☐ 3.4mm 0.3 Tap for UNIH ☐ 3.4mm 0.3 Tap for GSH3 ☐ 3.4mm 0.3 Tap for UNIH ☐ 3.4mm 0.3 Tap		Bredent VKS	
						Design bar according to 1			
Ship To:						= Implant Position	■ = Clip Placeme	nt ▲ = Att	achment
Contact:									
						Š			
								Mandibuta.	
Email:						Maxillary		Mandibular	
Patient ID:	:								(2)
2. Preparing	g Your Case	For Shipme	ent)
Missing inforr	t send the artion or computer that it is a computer that it is a computer that is a compu	ogs. □ Cop culator. □ Ver ponents □ Res □ Ver r form □ Disi	sin pattern if (ified wax try-	npleted wor e soft-tissu CopyMill ba in, disinfec	k order e cast ar is desired sted	6. Special Instructions □ Please see back or attach			
*3. Structui		**See Compatibility	y Chart in CAM	StructSURE I	Manual (ART868)				- bu DIOMET A
	• • •					7. BIOMET 3i Screw Ord	Contact manufact	urer for screws not mad	e by BIOMET 31
verdentures		Combination		Fixed S	olutions	□ I would not like to order	screws at this time		
<i>Overdentures</i> Di Hader		Hader anterior,	,		lybrid #1	☐ I would not like to order Certain® Abutment Screws			Qty.
Hader Dolder® U	shape Macro	☐ Hader anterior, ☐ Hader anterior,	Dolder distal		lybrid #1 lybrid #2	Certain® Abutment Screws Gold-Tite® Hexed Large Dian	meter (ILRGHG)		Qty.
Hader Dolder® U → 2.2mn Dolder Egg	shape Macro n gshape Macro	☐ Hader anterior, ☐ Hader anterior, ☐ Dolder anterior	Dolder distal r, Primary dista	 	lybrid #1 lybrid #2 Vrap Around	Certain® Abutment Screws Gold-Tite® Hexed Large Diam Titanium Hexed Large Diame External Hex Abutment Scre	neter (ILRGHG) eter (ILRGHT)		Qty.
Hader Dolder® U → 2.2mn Dolder Egg → 2.2mn	shape Macro n gshape Macro n	☐ Hader anterior, ☐ Hader anterior, ☐ Dolder anterior ☐ Dolder anterior	Dolder distal r, Primary dista r, Hader distal	H CopyM	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default)	Certain® Abutment Screws Gold-Tite® Hexed Large Dian Titanium Hexed Large Diame External Hex Abutment Scre Gold-Tite Square (UNISG)	neter (ILRGHG) eter (ILRGHT)		Oty.
Hader Dolder® U → 2.2mn Dolder Egg	shape Macro n gshape Macro n ° Taper	□ Hader anterior, □ Hader anterior, □ Dolder anterior □ Dolder anterior □ Primary anterior	Dolder distal r, Primary dista r, Hader distal or, Hader distal	CopyM	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain	Certain® Abutment Screws Gold-Tite® Hexed Large Dian Titanium Hexed Large Dian External Hex Abutment Scre Gold-Tite Square (UNISG) Gold-Tite Hexed (UNIHG)	neter (ILRGHG) eter (ILRGHT)		Qty.
Hader Dolder® U → 2.2mn Dolder Egg → 2.2mn Primary _	shape Macro m gshape Macro n _° Taper	□ Hader anterior, □ Hader anterior, □ Dolder anterior □ Dolder anterior □ Primary anterior □ Primary anterior	Dolder distal r, Primary dista r, Hader distal or, Hader distal or, Dolder dista		lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain anada Bar	Certain® Abutment Screws Gold-Tite® Hexed Large Diam Titanium Hexed Large Diam External Hex Abutment Scre Gold-Tite Square (UNISG) Gold-Tite Hexed (UNIHG) Titanium Hexed (UNIHT) Laboratory Square Try-in Sc	neter (ILRGHG) eter (ILRGHT) <u>ws</u>		Qty.
Hader Dolder® U 2.2mn Dolder Egg 2.2mn Primary _ *4. Case In	shape Macro m gshape Macro n ° Taper	□ Hader anterior, □ Hader anterior, □ Dolder anterior □ Dolder anterior □ Primary anterior	Dolder distal r, Primary dista r, Hader distal or, Hader distal or, Dolder dista y Chart in CAM	CopyM CopyM CopyM CopyM CopyM CopyM CopyM	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain anada Bar Manual (ART868)	Certain® Abutment Screws Gold-Tite® Hexed Large Diam Titanium Hexed Large Diam External Hex Abutment Scre Gold-Tite Square (UNISG) Gold-Tite Hexed (UNIHG) Titanium Hexed (UNIHT)	meter (ILRGHG) eter (ILRGHT) ws crew - 5 pack (UNITS)		Qty.
1	shape Macro m gshape Macro m° Taper Information	Hader anterior, Hader anterior, Dolder anterior Dolder anterior Primary anterior Primary anterior Primary anterior	Dolder distal r, Primary distal r, Hader distal or, Hader distal or, Dolder distal or, Dolder dista y Chart in CAM	CopyM CopyM CopyM CopyM CopyM CopyM CopyM	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain anada Bar Manual (ART868) lbutment	Certain® Abutment Screws Gold-Tite® Hexed Large Dian Titanium Hexed Large Dian External Hex Abutment Scre Gold-Tite Square (UNIHG) Titanium Hexed (UNIHG) Titanium Hexed (UNIHT) Laboratory Square Try-in Sc Retaining Screws Gold-Tite, 2mm(H) (GSH20) Gold-Tite, 3mm(H) (GSH30)	meter (ILRGHG) eter (ILRGHT) WS crew - 5 pack (UNITS)		Qty.
Hader Dolder® U 2.2mn Dolder Egg 2.2mn Primary _ *4. Case In	shape Macro m gshape Macro n ° Taper	□ Hader anterior, □ Hader anterior, □ Dolder anterior □ Dolder anterior □ Primary anterior	Dolder distal r, Primary dista r, Hader distal or, Hader distal or, Dolder dista y Chart in CAM	CopyM CopyM CopyM CopyM CopyM A A	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain anada Bar Manual (ART868)	Certain® Abutment Screws Gold-Tite® Hexed Large Dian Titanium Hexed Large Dian External Hex Abutment Scre Gold-Tite Square (UNISG) Gold-Tite Hexed (UNIHG) Titanium Hexed (UNIHT) Laboratory Square Try-in Sc Retaining Screws Gold-Tite, 2mm(H) (GSH20)	meter (ILRGHG) eter (ILRGHT) WS crew - 5 pack (UNITS)		Qty.
1	shape Macro m gshape Macro m° Taper Information	Hader anterior, Hader anterior, Dolder anterior Dolder anterior Primary anterior Primary anterior Primary anterior	Dolder distal r, Primary dista r, Hader distal or, Hader distal or, Dolder dista y Chart in CAM Implant Platform	CopyM CopyM CopyM CopyM A	lybrid #1 lybrid #2 Vrap Around lill for acrylic (Default) lill for porcelain anada Bar Manual (ART868) lbutment	Certain® Abutment Screws Gold-Tite® Hexed Large Diam Titanium Hexed Large Diam External Hex Abutment Scre Gold-Tite Square (UNIHG) Titanium Hexed (UNIHG) Titanium Hexed (UNIHT) Laboratory Square Try-in Sc Retaining Screws Gold-Tite, 2mm(H) (GSH20) Gold-Tite, 3mm(H) (GSH30) Gold-Tite, 7mm(H) (GSH70) Waxing Screws Certain - Implant Level Waxi	meter (ILRGHG) eter (ILRGHT) WS crew - 5 pack (UNITS) ing Screw, 16mm (IWS)		Qty.
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Procedure And Laboratory Manual



RESTORATIVE DENTIST - 1st Visit

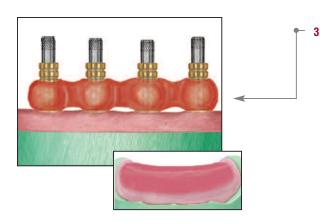
 See the BIOMET 3i Restorative Manual (CATRM) or consult the specific implant system manual for abutment placement and abutment level or implant level impressioning instructions.



LABORATORY

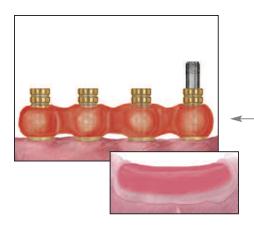
 Fabricate a soft tissue master cast as illustrated using new, undamaged analogs. Using old, damaged or loose fitting analogs can interfere with the scanning and design process and may prevent the bar from properly seating. Cases received with either damaged or insufficiently anchored analogs will be returned to the laboratory.

NOTE: The soft tissue material on the master cast must be applied approximately 2mm down from the analog interface. It must also be easily removable for the scanning and design process and to ensure a proper fit.



Place non-hexed titanium implant or abutment temporary cylinders onto the analogs and screw into place with waxing or try-in screws. Fabricate a rigid verification index by luting the cylinders together using a light cure composite resin or autopolymerizing acrylic resin. Also, fabricate a baseplate and wax the occlusal rim. Return the verification index for intraoral fit verification and wax occlusal rim for interocclusal records.





RESTORATIVE DENTIST - 2nd Visit

4. Remove the healing abutments or caps using the proper driver. Place the wax occlusal rim into the mouth and make the interocclusal records. Place the verification index onto the implants or abutments. Place a try-in screw into one posterior most cylinder of the verification index and finger tighten. Visually verify a passive fit on all interfaces. If the interfaces are subgingival, take a radiograph to verify a passive fit. Remove the screw and place into the opposite posterior most cylinder of the verification index and repeat. If a fit discrepancy is found, section the index and reassemble it intraorally by luting with a resin material. Remove the index. Immediately replace the healing abutments or caps.



LABORATORY

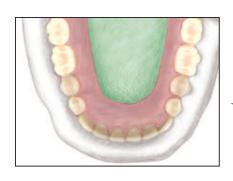
Verify that the analog positions on the cast are accurate using the verification index. If a fit discrepancy is found, remove the analog(s) and replace these in the cast using the corrected verification index. Articulate the casts using the interocclusal record. Set the denture teeth on the baseplate and return the wax try-in for verification.



RESTORATIVE DENTIST - 3rd Visit

6. Remove the healing abutments or caps and place the wax try-in into the mouth. Verify occlusion, aesthetics and phonetics. Make any necessary adjustments. If major adjustments are necessary, make a new interocclusal record and return to the laboratory for a new set-up and wax try-in.

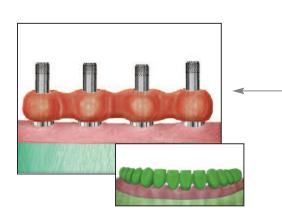
Procedure And Laboratory Manual



LABORATORY

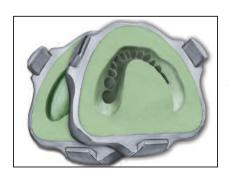
7. Place the verified wax try-in on the cast and make a silicone or plaster matrix of the tooth positions. Do not remove the teeth inside the matrix. If requesting fabrication of a virtual designed CAM StructSURE® Bar or Framework, go to step 11.

If requesting fabrication of a Copy Milled CAM StructSURE Bar or Framework, go to the next step.



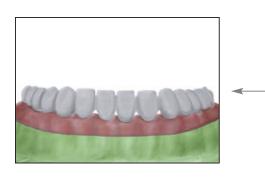
COPY MILLED CAM StructSURE

8. Place the verification index on the implant or abutment analogs and screw into place with waxing screws. Reduce the height of the temporary cylinders using a carbide bur so that these fit within the confines of the silicone matrix. Apply a separator to the inside of the matrix of the wax try in and place it on the cast. Pour wax into the impressions of the teeth in the matrix and around the verification index. Remove the matrix and complete the wax up of the bar or framework on the lingual or palatal side.



Flask the wax up for processing. Boil away the wax and separate the flask. Remove the verification index and remove the temporary cylinders from the index. Place each Temporary Cylinder back on the analogs with waxing screws. Process the wax up in acrylic resin. Please use light color acrylic resin for scanning purposes.





10. Remove the framework from the flask. Finish the framework to the desired contours with a bur. Cut back the teeth approximately 2mm if the framework is being designed for porcelain application. Place the matrix on the cast periodically as a guide for proper contouring. On the CAM StructSURE® Work Order Form, please indicate whether the bar will be processed for acrylic or porcelain applications. The default is acrylic.

- Complete the CAM StructSURE Precision Milled Bar Work Order Form. See page 11 for an example. Package the following items securely in a box:
 - · Copy Of The Work Order Form
 - Verified Soft Tissue Master Cast Unmounted*
 - Verified Wax Try-In Or Acrylic Resin Framework
 - Verification Index

*Casts should be unmounted because BIOMET *3i* will mount those for scanning purposes. If casts are sent mounted, some may need to have mountings removed from the cast, requiring remounting and articulating at a later point, which may break the model.

PLEASE DO NOT SEND:

- · The Articulator
- · The Opposing Cast

NOTE: All items and/or materials that have been used intraorally must be disinfected following manufacturer's instructions before these are sent to BIOMET 3i.

Send to:

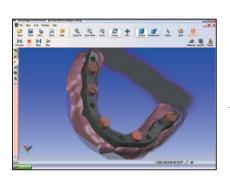
In USA:
BIOMET *3i* ARCHITECH PSR®
4555 Riverside Drive
Building B
Palm Beach Gardens
Florida 33410

In Canada: BIOMET *3i* Canada, Inc. 5805 St. Francois St Laurent, Québec CANADA H4S 1B6 1-800-363-1980 Ext. 230

In Europe:

1-800-342-5454

BIOMET Spain Orthopaedics, S.L. ARCHITECH PSR® Calle Islas Baleares, 50 46988 Fuente del Jarro Valencia, Spain 34-96-137-95-00



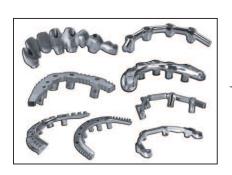
BIOMET *3i* ARCHITECH PSR® VIRTUAL DESIGN

12a. The soft tissue master cast and the verified wax try-in are scanned and transferred into the CAD software. The CAM StructSURE® Precision Milled Bar is designed in CAD according to the work order form provided.

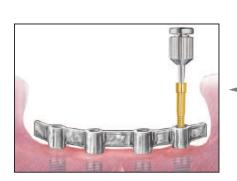
COPY MILLED DESIGN

12b. The acrylic bar or framework is scanned and transferred into the CAD software. The Copy Milled Bar or Framework is designed to match the acrylic bar or framework.

A link for virtual viewing of your CAM StructSURE design will be sent via email for a 24 hour preview and design verification (See pages 6-9 for viewing instructions).



13. Following the preview period, the design file is transferred to a milling machine for fabrication. After milling is complete, the bar or framework is finished and polished. The CAM StructSURE Bar or Framework, any requested components and case materials sent to BIOMET 3i are returned to the laboratory. The laboratory may send the CAM StructSURE Bar or Framework to the restorative dentist for intraoral try in or complete the prosthesis.



RESTORATIVE DENTIST - 4th Visit (Optional)

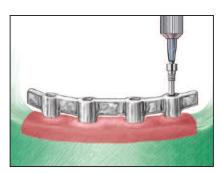
14. Remove the healing abutments or healing caps. Place the CAM StructSURE Bar or Framework onto the implants or abutments. Thread a try-in screw into the posterior most access hole until finger tight. Visually verify a passive fit on all interfaces. If interfaces are subgingival, take a radiograph to verify a passive fit. Remove the screw and place into the opposite posteriormost access hole of the bar and repeat.

NOTE: If a fit discrepancy is detected during bar try-in, one of the following corrective measures may be used.

- The CAM StructSURE Bar or Framework may be sectioned and reassembled intraorally. Then the analog(s) in the master cast are repositioned by the laboratory and a new bar or framework is fabricated.
- A new impression is made and a new master cast is poured. Then, the verification steps must be repeated and a new bar or framework is fabricated.

Please consult with your laboratory.



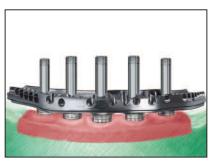


Hader or Dolder Bar

LABORATORY

15a. Hader Or Dolder® Bar Restoration

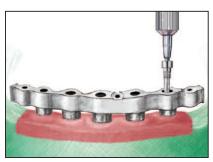
Place the wax try-in on the cast. Place the matrix on the try-in and remove it with the denture teeth inside it. Attach the bar onto the analogs using try-in or laboratory screws. Transfer the denture teeth from the matrix over the bar on the cast and wax the denture for processing. Flask the waxed denture. Boil away the wax and separate the flask. Block out all undercuts and access holes with wax. Place the Hader/Dolder clips or other attachments onto the bar. Process and finish the overdenture prosthesis in a conventional fashion. Polishing protectors should be in place to protect the bar interfaces during all polishing procedures. Return the final prosthesis to the restorative dentist for delivery.



Fixed-Hybrid Bar

15b. Fixed-Hybrid Restoration

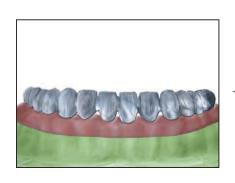
Place the wax try-in on the cast. Place the matrix on the try-in and remove it with the denture teeth inside it. Attach the bar onto the analogs using waxing screws. Transfer the denture teeth from the matrix onto the bar on the cast and wax the fixed-hybrid prosthesis for processing. Flask the waxed fixed-hybrid prosthesis. Boil away the wax and separate the flask. Block out all undercuts with wax. Process and finish the fixed-hybrid prosthesis in a conventional fashion. Polishing protectors should be in place to protect the bar interfaces during all polishing procedures. Return the final prosthesis to the restorative dentist for delivery.



Milled Primary Bar

15c. Milled Primary And Secondary Bar Restoration

Place the wax try-in on the cast. Place the matrix on the try-in and remove it with the denture teeth inside it. Attach the primary bar onto the analogs using try-in or laboratory screws. Seal the access holes and block out all the undercuts with wax. Make a refractory model of the primary bar on the cast. Wax and cast the secondary bar on the refractory model with the selected attachments. Fit the secondary bar onto the primary bar on the cast. Place the attachments. Transfer the denture teeth from the matrix onto the secondary bar on the cast and wax for processing. Flask the waxed prosthesis. Boil away the wax and separate the flask. Block out all undercuts and access holes with wax. Process and finish the prosthesis in a conventional fashion. Polishing protectors should be in place to protect the bar interfaces during all polishing procedures. Return the final prosthesis to the restorative dentist for delivery.



15d. Copy Milled Framework

Place the Copy Milled Framework on the cast and screw it into place using try in screws. Place the cast on the articulator. Opaque and build porcelain on the framework or apply acrylic resin. Place the matrix on the cast periodically as a guide for proper contouring. Stain and glaze the porcelain or polish the acrylic.



RESTORATIVE DENTIST - Final Visit

16a. Hader Or Dolder® Bar Restoration

Remove the healing abutments or caps from the implants or abutments. Place the bar onto the implants or abutments. Thread the abutment or retaining screws into the implants or abutments until finger tight using the manufacturer's recommended driver. Visually verify a passive fit on all interfaces. If the interfaces are subgingival, take a radiograph to verify a passive fit. Torque the screws to the recommended level with a torque device following the manufacturer's instructions. Place the overdenture onto the bar engaging the attachments. Make any occlusal adjustments necessary. Instruct the patient on insertion and removal of the prosthesis and on proper oral hygiene.



16b. Fixed-Hybrid Restoration

Remove the healing abutments or caps from the implants or abutments. Place the fixed-hybrid prosthesis onto the implants or abutments. Thread the abutment or retaining screws into the implants or abutments until finger-tight using the manufacturer's recommended driver. Visually verify a passive fit on all interfaces. If the interfaces are subgingival, take a radiograph to verify a passive fit. Torque the screws to the recommended level with a torque device following the manufacturer's instructions. Make any occlusal adjustments necessary. Place a protective material over the screw heads. Seal the access holes with composite resin and polish. Instruct the patient on proper oral hygiene.





16c. Milled Primary And Secondary Bar Restoration

Remove the healing abutments or caps from the implants or abutments. Place the primary bar onto the implants or abutments. Thread the abutment or retaining screws into the implants or abutments until finger-tight using the manufacturer's recommended driver. Visually verify a passive fit on all interfaces. If the interfaces are subgingival, take a radiograph to verify a passive fit. Torque the screws to the recommended level with a torque device following the manufacturer's instructions. Place the secondary prosthesis onto the bar, engaging the attachments. Make any occlusal adjustments necessary. Instruct the patient on insertion and removal of the prosthesis and on proper oral hygiene.



16d. Copy Milled Framework

Remove the healing abutments or caps from the implants or abutments. Place the Copy Milled Bridge onto the implants or abutments. Thread the abutment or retaining screws into the implants or abutments until finger-tight using the manufacturer's recommended driver. Visually verify a passive fit on all interfaces. If the interfaces are subgingival, take a radiograph to verify a passive fit. Torque the screws to the recommended level with a torque device following the manufacturer's instructions. Make any occlusal adjustments necessary. Place a protective material over the screw heads. Seal the access holes with composite resin and polish. Instruct the patient on proper oral hygiene.

Design Matrix

Type I Bars: Bars For Removable Prostheses (all dimensions in millimeters unless otherwise specified)

Dim.	Description	Min.	Мах.
Α	Platform Seating Diameter	3.4	6.0
В	Cylinder Height	2.5	10.0
С	Cylinder Diameter	3.4	6.0
D	Maximum Angulation Between Cylinders	0°	30°
E	Total Implants Or Abutments	2	10
F	Bar Span Between Implants Or Abutments	2.0	27.0
G	Bar Height	2.5	10.0
Н	Bar Width	1.8	10.0
I	Distal Extension	0	12.0

Type II Bars: Fixed Hybrid Bars (all dimensions in millimeters unless otherwise specified)

Dim.	Description	Min.	Мах.
Α	Platform Seating Diameter	3.4	6.0
В	Total Implants Or Abutments	4	10
С	Bar Span Between Implants Or Abutments	2.0	27.0
D	Bar Height	2.5	22.0
Е	Bar Width	4.0	10.0
F	A/P Spread	0	40.0
G	Distal Extension	0	18.0



Notes	



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