

Sterngold Attachments



Quality Products, Support & Education

Sterngold's first dental attachment was developed in 1921. We have been producing precision dental attachments longer than any company in the world and are the largest American manufacturer of dental attachments for removable partial dentures, overdentures and segmented bridges. We developed the patented Stern ERA®, today's most popular resilient attachment. In addition, Sterngold offers implant overdentures as the newest dental attachment application.



Dental Attachments

Working with Metal Attachments
Definitions of Dimensions
Rigid Attachments for Removable Partial Dentures
Resilient Attachments for Removable Partial Dentures
Segmenting Attachments for Fixed Partial Dentures
Overdenture Attachments
Bar Attachments
Supplemental Attachments
Attachment Fabricating Supplies

Working with Metal Attachments

Depending on the attachment's design, metal components are anchored in denture acrylic, soldered to a casting, or invested along with a wax pattern and cast against with a dental alloy. Use an alloy with a casting temperature at least 100°F (40°C) below the lowest value of the component's melting range when casting against an attachment component.

Melting Ranges of Attachments

М	e	lti	ng	F	lai	าด	e

Attachment Components	Degrees F	Degrees C		
Ceramacast	2600-2760	1425-1515		
Ceramicor	2550-2715	1400-1490		
Doral	1705-1860	930-1015		
Elitor	1615-1725	880-940		
Iridium-Platinum	3300-3360	1820-1850		
NPS	2700-2850	1480-1565		
OSV	1885-2010	1030-1100		

Attachment Selection

In citing common applications for dental attachments, Sterngold™ is reporting uses adopted by clinical authorities and does not endorse any particular philosophy of treatment. We recommend you consult the dental literature.

Measuring For Attachments

Sterngold works hard to make using attachments easy for you. In this catalog we provide our best advice on space requirements based on extensive practical experience. Each attachment description lists the minimum space required for placement of the attachment with high assurance of successful, long-term function. Allowances are made for dental casting alloys and denture acrylic that surround or hold the attachment component. With this information you can measure a study cast and decide if an attachment can be used in the available space.

Allowances

Denture acrylic thickness

- Occlusal to extracoronal attachment components, bars, and overdenture attachments (influences Height), 1mm
- Lateral to attachment components (influences Removable Component Width), 1mm on each side

Casting alloy thickness

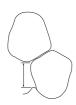
- For root cap coping (influences Height), 0.5mm
- Between a box preparation axial wall and a metal intracoronal precision attachment female (influences Prep Depth), 0.4mm

Solder thickness (influences Height), 0.3mm

Note: At least 0.5mm of casting alloy must separate the attachment female from a porcelain fused to metal veneer.

Definitions of Dimensions

Partial Denture Attachments



Height

Minimum required distance from the papilla to the opposing occlusal surface.



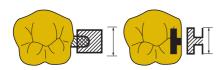
Prep Depth

Minimum depth of tooth structure needed for preparation of the attachment space.



FC Width Fixed Component of the attachment

Minimum faciolingual space necessary for the fixed attachment component.



RC Width Removable Component of the attachment

Minimum faciolingual space required in the prosthesis for the removable attachment component.

Overdenture Attachments



Height

Minimum required distance from the surface of the prepared abutment root to the opposing occlusal surface.



Prep Depth

Minimum depth of tooth structure needed for preparation of the attachment space.



FC Width Fixed Component of the attachment

Minimum diameter of the space required for the fixed attachment component. Measure the smallest diameter of the root surface.



RC Width Removable Component of the attachment

Minimum diameter of the space needed in the prosthesis for the removable attachment component.

Definitions of Dimensions

Segmenting Attachments



Height

Minimum required distance from the papilla to the opposing occlusal surface when the attachment is used only for segmentation.



Prep Depth

Minimum depth of tooth structure needed for preparation of the attachment space.



Width

Minimum faciolingual space necessary for the attachment.



RPD Height Removable Partial Denture

Minimum required distance from the papilla to the opposing occlusal surface when the attachment is later converted to a removable partial denture retainer.

Bar Attachments



Height

Minimum required distance from the surface of the prepared abutment root to the opposing occlusal surface.



FC Height Fixed Component of the attachment

Minimum occlusogingival space needed for the bar.



FC Width Fixed Component of the attachment

Minimum faciolingual space needed for the bar.



RC Width Removable Component of the attachment

Minimum faciolingual space required in the prosthesis for the removable attachment component.

Rigid attachments are highly stable connectors with very slight movement in function. When abutment teeth are stable, rigid attachments are often the connectors of choice. Some can be used for segmenting fixed partial dentures to simplify future case conversion to a removable restoration.

In distal extension partial denture cases, occlusal forces are directed to both the abutment teeth and the edentulous ridge, with emphasis on the teeth. Therefore, rigid attachments are kinder to the edentulous ridge than are resilient attachments.

Stern Latch

· Intracoronal precision slide attachment

· Partial dentures - non-resilient bilateral or

· Cross-arch stabilization for non-resilient

- · Adjustable gingival latch
- · Gold Alloy (Ceramicor) male

unilateral, bound or free-end

unilateral partial dentures · Segmented fixed bridgework

· Iridium-Platinum female



Transfer Jig













Indications

Male - soldered or laser welded to removable partial denture framework, or cast to with gold alloys

Female - soldered or cast to with precious and non-precious alloys



Height*	FC Width	Prep Depth	RC Width		
3.5mm	3.3mm	2.2mm	3.3mm		
* Using a lingual stabilizing arm is always a good idea with rigid					
attachments, but is necessary when the attachment is reduced to 4.0mm					
or less					

Ultra Retention

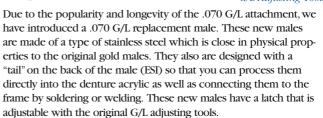
Unlike most attachments, the Stern Latch does not rely solely on friction between the male and female for retention. It also features a gingival latch on the male that clicks over a dimple in the female. Using the special G/L adjusting tools, the latch retention can be simply and predictably adjusted to give the patient just what they need.

Precision Manufactured

High quality manufacturing techniques result in a sleek precision machined finish. New techniques finish the Stern Latch components to .0001" assuring quality of fit, consistency, and interchangeability of parts. The female is made of high melting temperature Iridium-Platinum that can be cast against with virtually all alloys. The male is a high temperature Ceramicor alloy that can be soldered, welded or cast to with gold alloys. Rounded male end also allows for easier insertion.

Item	Number
Stern Latch	802010
Female	802011
Male	802012
Paralleling Mandrel	802014
Transfer Jig	802013





- •Stainless Steel
- ·Precision machined
- · Adjustable gingival latch

Fixation

Soldered or laser welded to a removable partial denture framework or polymerized into denture

Number
802803
801656
812018
802110
802113
802114
802115



C&M McCollum

- Intracoronal precision slide attachment
- · Frictional retention
- Gold alloy (Ceramicor) male and female
- Retention adjustment slot on left or right side of male



Left

Note: Left and Right refer to orientation in the lower arch. If you are working in the upper arch you would order the opposite. Example - If working on the upper right side you would order a left McCollum. Generally, retention will be easiest to adjust if the slot is toward the buccal of the prosthesis.

Right

Indications

- Partial dentures non-resilient bilateral or unilateral, bounded or free-end
- Cross-arch stabilization for non-resilient unilateral partial dentures
- · Segmented fixed bridgework

Fixation

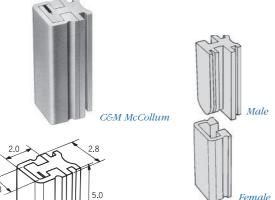
Male — soldered, electro or laser welded, or cast directly against with any precious alloy (not non-precious)

Female — soldered, or cast directly against with any precious alloy (not non-precious)

Minimum Space Required Definitions of Dimensions, page 1.2-3

Height*	FC Width	Prep Depth	RC Width		
3.5mm	3.8mm	2.4mm	3.8mm		
*Using a lingual stabilizing arm is always a good idea with rigid					
attachments, but is necessary when the attachment is reduced to					
4.0mm or less.					

Item	Number
C&M McCollum Left slot	801113
C&M McCollum Right slot	801114
Female	801118
Male Left	801119
Male Right	801117
Paralleling Mandrel	801115



^{*} Not available in some countries

Biloc® and Plasta

- Intracoronal semi-precision slide attachment
- Adjustable friction retention
- Precious alloy (Doral or Ceramicor) male,
 Plastic (Korak) female
- Designed for use with non-precious alloys
- Requires lingual bracing arm and Plasta auxiliary rod and tube attachment

Fixation

Male — soldered to removable partial denture framework Female — cast as part of crown pattern

remaie — cast as part of crown pattern

Plasta — male and female plastic casting patterns

Cast plastic components using alloys with a minimum Vickers hardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3 Biloc

21100				
Height	FC Width	Prep Depth	RC Width	
3.0mm	3.0mm	2.0mm	3.0mm	
Plasta				
Height	FC Width	Prep Depth	RC Width	
2.0mm	2.0mm	2.0mm	N/A	

БПОС	
Item	Number
Biloc with Doral Male	801800
Biloc with Ceramicor Male	801813
Female	801801
Male, Doral alloy	801802
Male, Ceramicor alloy	801814
Paralleling Mandrel	801807
Activation Tool closes male	801808
Activation Tool opens male	801809
Bur for refining Biloc Female	801810
Spiral Drill for calibration	801811
Guide Pin	801812

Riloc

Plasta	
Item	Number
Plasta (Stabilizer)	801803
Female	801804
Male	801805
Paralleling Mandrel	801806





These stress directing attachments for Kennedy Class I and II cases place occlusal load on both the abutment teeth and the edentulous ridge. The ridge is more heavily loaded than when using rigid attachments, and the abutment teeth are more lightly loaded.

Stern ERA®-RV and Micro ERA

- · Extracoronal semi-precision attachment
- · Universal hinge with vertical resiliency
- · Nylon male, plastic pattern female
- · Black fabrication male with built-in spacer
- Six color-coded males to create a consistent level of retention (white, orange, blue, grey, yellow and red)
- Males easily changed without use of autopolymerizing acrylic
- Optional ERA Metal Jacket holds the attachment male in the denture base and is sold pre-loaded with a black fabrication male. Stainless steel to allow soldering or laser welding.



White, Orange, Blue, Grey, Yellow, Red

Fixation

Male — retained directly in processed denture acrylic or ERA-RV/ Micro ERA Metal Jacket

Female — cast as part of crown pattern

Cast plastic components using alloys with a minimum Vickers hardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

ERA-RV

Minimum Space Required Definitions of Dimensions, page 1.2-3

Height FC Width Prep Depth RC Width
3.5mm† 2.8mm Normal crown 6.3mm

ERA Metal Jacket thickness: 0.3mm

†Add 1.0mm for patients with babitually strong bites.

Micro ERA

Minimum Space Required Definitions of Dimensions, page 1.2-3

Height FC Width Prep Depth RC Width 3.0mm† 2.2mm Normal crown 5.4mm ERA Metal Jacket thickness: 0.3mm †Add 1.0mm for patients with babitually strong bites.













ERA-RV Offset 2.5 Female

ERA/ERA-RV Female

The

Micro ERA® Attachment is 20% smaller than the ERA-RV. making it the smallest extracoronal resilient attachment in the world.

(only 2mm tall and 3.4mm wide)

ERA-RV

811105

Micro ERA

811011

ERA Starter Kit

2 attachments, 2 metal jackets, 2 processing jigs, 1 core cutter bur, 1 seating tool, and 1 paralleling mandrel

ERA Complete Attachment 1 female, 2 black males, 2 white males, 1 orange male

ERA-RV/Micro ERA 811012 811115 ERA-RV Offset 2.5 811204 N/A ERA-RV Offset 4.5 811203 N/A

ERA Female

ERA-RV/Micro ERA Female	811190	811010
ERA-RV Offset 2.5 Female	811202	N/A
ERA-RV Offset 4.5 Female	811201	N/A

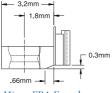
ERA Males

Black Fabrication, 5	811125	811013
White, 5	811135	811014
Orange, 5	811145	811015
Blue, 5	811155	811016
Grey, 5	811165	811017
Yellow, 5	811175	811018
Red, 5	811176	811019
Assorted 7	811166	811009

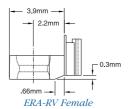
1 ea. black, white, orange, blue, grey, yellow, and red

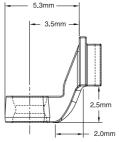
ERA Components

Liui Componento		
ERA Metal Jacket with fabrication male	811168	811021
Laboratory Tool Kit Core cutter bur, seating tool and paralleling mandrel	811200	811025
Dentist Tool Kit Core cutter bur and seating tool	811240	811026
ERA Core Cutter Bur	811220	811023
ERA Seating Tool	811230	811022
ERA Paralleling Mandrel	811210	811024
ERA Partial Denture Processing Jig	811250	811020
ERA-RV Impression Coping	811232	811235
ERA Attachment Extraction Tool	811027	811027

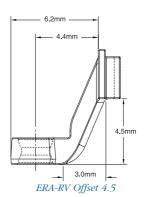


Micro ERA Female





ERA-RV Offset 2.5



Dalbo® (Dalbo®-S)

- · Extracoronal precision attachment
- Directed hinge featuring lateral stability, vertical resiliency with return spring and hinging movement
- Gold alloy (Ceramicor) or plastic pattern male
- Gold alloy female, Elitor for Ceramicor males or Doral for non-precious cast males
- Standard and mini sizes. Mini Dalbo lacks vertical resiliency.
- Unilateral design can also be used in bilateral applications; has a deeper vertical bar for more lateral stability.

Standard Unilateral Dalbo



Mini Unilateral Dalbo

Fixation

Male — Ceramicor males soldered or cast to with most precious alloys. Plastic pattern males cast in non-precious alloys.

Female — Polymerize into denture acrylic

Cast plastic components using alloys with a minimum Vickers bardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

Elitor females, Ceramicor males:

-	Height	FC Width	Prep Depth	RC Width
Standard Unilateral	6.0mm	3.4mm	1.6mm	5.5mm
Mini Unilateral	4.0mm	3.4mm	1.6mm	5.5mm

Doral females Plastic males:

Dorw Jemmes, 1 w		FC	Prep Depth	RC Width
Standard Unilateral	6.0mm	2.4mm	Normal Crown	5.5mm
Mini Unilateral	4.0mm	2.4mm	Normal Crown	5.5mm

Precious Alloy Retainer Crowns

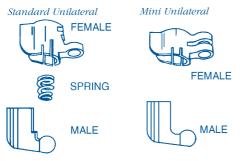
(Elitor females and Ceramicor males)

Item	Number
Standard Unilateral Dalbo	801415
Standard Unilateral Female with spring	801434
Standard Unilateral Male	801435
Mini Unilateral Dalbo	801423
Mini Unilateral Female	801446
Mini Unilateral Male	801447
Standard Bilateral Female with spring†	801440
Mini Bilateral Female†	801449

Mini Bilateral Female†	801449
On-Precious Alloy Retainer Crowns Ooral females and plastic pattern males)	
Item	Number
Standard Unilateral Dalbo	801820
Standard Unilateral Female with spring	801821
Standard Unilateral Male	801822
Mini Unilateral Dalbo	801826
Mini Unilateral Female	801827
Mini Unilateral Male	801828
Components	
Item	Number
Mini Processing Jig	801425
Standard Processing Jig	801426
Paralleling Mandrel	801427
Standard Fabricating Plug	801428

Standard Coil Springs, 6

801430



[†] Bilateral females and large fabricating plug are replacement parts for older cases.

Cross-Arch Roach

- Intracoronal precision attachment. Specifically for cross-arch stabilizing Kennedy Class II cases restored using resilient attachments.
- · Adjustable frictional retention
- Gold alloy male (OSV) and female (Ceramicor)
- Female is set in the lingual surface of a pontic or large molar crown
- Male rotates and moves vertically as the contralateral attachment functions.

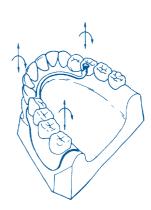


Fixation

Male — soldered to removable partial denture framework Female — soldered, or cast to with most precious alloys

Minimum Space Required Definitions of Dimensions, page 1.2-3

Height	FC Width	Prep Depth	RC Width
4.0mm	4.5mm	4.5mm	N/A









Item	Numbe
Cross-Arch Roach	801482
Female	801488
Male	801489
Paralleling Mandrel	801483
Retention Adjusting Tool	801485



Hader Vertical Kit

Hader Vertical

- Extracoronal semi-precision attachment
- · Very slight hinging motion makes it functionally compatible with clasp retainers on the contralateral side of the arch.
- Nylon clip and plastic pattern male
- · Loads abutment tooth more strongly than other resilient attachments



Fixation

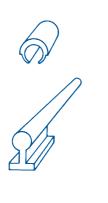
Male — cast as part of crown pattern

Clip — frictionally held in removable partial denture framework

Cast plastic male using alloys with a minimum Vickers hardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

	FC	Prep	RC
Height	Width	Depth	Width
		Normal	
4.5mm	1.8mm	Crown	5.0mm





Item	Number
Hader Vertical Kit Attachments (6) and seating tool	810040
Hader Housing, 6	810058
Riders, white, 6	810003
Riders, yellow, 6	810005
Riders, red, 6	810007
Seating Tool	810025
Males, 6	810055

^{*} Not available in some countries.

Segmenting Attachments for Fixed Partial Dentures

Major applications of segmentation are: non-parallel abutments, easier laboratory fabrication and clinical insertion of large fixed restorations, occlusal force management in pier abutment cases, and segment removal for case repair or conversion to a removable partial denture.

Plastic Dovetail

- Intracoronal semi-precision slide attachment
- · Frictional retention, not adjustable
- · Plastic pattern male and female
- Can also be used in conjunction with a retentive clasp arm as a rigid attachment for removable partial dentures
- Built in paralleling mandrels for both male and female allow the male or female to be positioned towards the occlusal.

Fixation

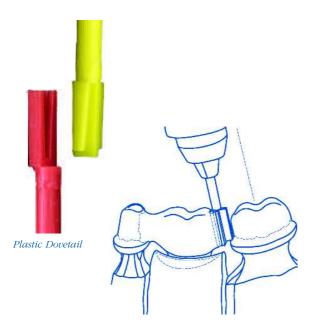
Male — cast as part of crown or pontic pattern Female — cast as part of crown pattern

Cast plastic components using alloys with a minimum Vickers bardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

		Ргер	KPD
Height	Width	Depth	Height
2.0mm	2.6mm	2.0mm	3.5mm

Item Number
Plastic Dovetail, 2 per pkg. 807110





Tube Lock

- · Intracoronal semi-precision rod and tube attachment
- Frictional retention, not adjustable
- · Plastic pattern male and female

Fixation

Male — cast as part of crown or pontic pattern Female — cast as part of crown pattern

Cast plastic components using alloys with a minimum Vickers hardness of 200 and at least 85,000 psi ultimate tensile strength.

Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	Width	Prep Depth
Small Tube Lock	2.0mm	1.8mm	1.6mm
Large Tube Lock	2.0mm	2.0mm	1.9mm

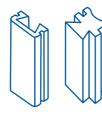
Tube Lock Kit
4 small and 2 large attachments
with ceramic rods, 1 small reamer,
1 large reamer, 1 small mandrel
and 1 large mandrel

Small Tube Lock Item	Number
Small Tube Lock	821005
2 attachments per pkg. with ceramic rods	
Small Tube Lock	821030
2 attachments per pkg. without ceramic rods	
Females, 4	821045
Males, 4	821040
Ceramic Rods, 4	821035
Paralleling Mandrel	821015
Carbide Bur	821020
Reamer	821025
Large Tube Lock Item	Number
Large Tube Lock	821010
2 attachments per pkg. with ceramic rods	
Large Tube Lock	821065
2 attachments per pkg. without ceramic rods	
Females, 4	821080
Males, 4	821075
Ceramic Rods, 4	821070
Paralleling Mandrel	821050
Carbide Bur	821055
Reamer	821060

821001

Segmenting Attachments for Fixed Partial Dentures





Beyeler

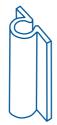
- Intracoronal, precision, slide attachment. Tolerances 50% tighter than other precision attachments.
- Frictional retention with 2° taper, not adjustable
- · Gold alloy (Ceramicor) male and female
- · Dovetail design for strength and lateral stability
- · Indicated for fixed partial denture segmentation only

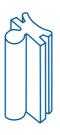
Male — soldered, or cast to with most precious alloys Female — soldered, or cast to with most precious alloys

Minimum Space Required Width

Height	Width	Prep Depth	RPD Height	
2.0mm	3.7mm	1.6mm	N/A	
			Item	Number
			Beyeler	801043
			Female	801044
			Male	801045
		Paralleling	g Mandrel	801047







Interlock

Interlock (Cylindrical Slide Attachment)

- · Intracoronal precision rod and tube attachment
- · Frictional retention, not adjustable
- · Gold alloy (Ceramicor) male and female
- · Indicated for fixed partial denture segmentation only

Male —soldered, or cast to with most precious alloys Female —soldered, or cast to with most precious alloys

Minimum Space Required Definitions of Dimensions, page 1.2-3

		1	,	, F
Height	Width	Prep Depth	RPD 1	Height
2.0mm	2.5mm	2.5mm	N/A	
			Item	Number
		Int	terlock	801026
		1	Female	801028
			Male	801029
		Paralleling M	landrel	801027



Combi-Snap





Combi-Snap®

Width

- · Intracoronal precision slide attachment
- · Frictional retention with latch, optional screw retention
- · Gold alloy (Ceramicor) male and female
- · Locking screw prevents patient separation of male and female
- Removal of the locking screw converts the attachment to its removable partial denture configuration with frictional retention and adjustable spring latch.

Fixation

Height

Male — soldered, or cast to with most precious alloys. Solder to removable partial denture framework.

Female — soldered, or cast to with most precious alloys

Minimum Space Required Definitions of Dimensions, page 1.2-3 Prep Depth

RPD Height

8		PP		9
.2mm	4.4mm	2.7mm	5.2mm	
			Item	Number
		(Combi-Snap	801051
			Female	801061
			Male	801060
		Parallel	ing Mandrel	801052
		Pr	ocessing Jig	801053
	Comb	oi-Snap Activator/	'Deactivator	801054
		:	Screwdriver	801055
		Т	Thomas Key	801938
		Occ	clusal Screw	801062

Anchoring an overlay denture to retained roots enhances denture stability. Overdenture attachments are available with rigid or resilient function. Due to compromised periodontal support, resilient designs are most commonly used.

Stern ERA® and Micro ERA® Overdentures

- · Resilient semi-precision attachment
- · Radicular snap
- Universal hinge with vertical movement
- · Nylon male, plastic pattern female
- · Black fabrication male with built-in spacer
- Six color-coded males to create a consistent level of retention (white, orange, blue, grey yellow, red)
- Optional ERA Metal Jacket holds the attachment male in the denture base and is sold pre-loaded with a black fabrication male. Stainless steel to allow soldering or laser welding.
- · Males changed without use of autopolymerizing acrylic
- New Micro is 20% smaller than the original. This saves
 0.5mm in height and almost 1mm in width with no loss of retention or longevity.

Fixation

Male — retained directly in processed denture acrylic or ERA Overdenture Metal Jacket

Female — cast as part of root cap coping

Cast plastic components using alloys with a minimum Vickers hardness of 200 and at least 85,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	FC Width	Prep Depth	RC Width
Stern ERA	4.2mm†	4.3mm	N/A	6.3mm
Micro ERA	3.6mm†	3.4mm	N/A	5.4mm

†Add 1.0mm for patients with habitually strong bites. ERA Metal Jacket thickness: 0.3mm





White, Orange, Blue, Grey, Yellow, Red

Stern ERA	Micro ERA
811300	811045
811310	811044
811390	811030
811320	811035
811330	811036
811340	811037
811350	811038
811360	811039
811370	811040
811375	811041
811365	811029
811380	811043
811200	811025
811240	811026
811220	811023
811230	811022
811210	811024
811395	811042
811233	811236
811027	811027
	811300 811310 811320 811330 811340 811350 811360 811375 811365 811375 811365 811200 811220 811230 811210 811230 811210 811233

Rothermann (Eccentric)

- · Precision attachment, radicular eccentric stud
- · Rigid or resilient
- Gold alloy male (OSV) and female clip (Elasticor)
- · Does not require exact parallelism
- C-clip spring retention

Fixation:

Male — soldered to cast root coping Female — polymerized into denture acrylic

Minimum Space Required

	Height	FC Width	Prep Depth	RC Width across clip
Rigid	2.8mm†	3.5mm	N/A	7.6mm
Resilient	4.0mm†	3.5mm	N/A	7.6mm
†Add 1.0m	ım for patier	ıts with habitu	ally strong bites.	

	Actual Length	Actual Widtl
Anterior Female Anchor Bar	7.0mm	2.0mm
Posterior Female Anchor Bar	5.0mm	2.5mm

Rigid Rothermann

Item	Number
With Anterior Female	801210
With Posterior Female	801222
Male Only	801211
Processing Jig	801212
Anterior Female	801214
Posterior Female	801221

Resilient Rothermann

Item	Number
With Anterior Female	801213
With Posterior Female	801223
Male Only	801215
Processing Jig	801216
Anterior Female	801214
Posterior Female	801221
Gingival Spacer Disk	801217
Occlusal Spacer Disk	801218



Posterior Rothermann



Anterior Rothermann





Dalla Bona Cylindrical (Dalbo*-Z)



Dalla Bona Spherical (Dalbo®-Classic)

Dalla Bona

- · Rigid or resilient precision attachment
- Radicular telescopic stud and radicular ball and socket joint
- · Adjustable frictional retention
- Gold alloy male (Elitor) and (OSV or Elitor) female
- PVC ring surrounds the female to protect adjustment slots from acrylic.
- Spherical fabricated using removable spacer for vertical and universal hinge movement

Fixation

Male — soldered to cast root coping Female — polymerized into denture acrylic

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	FC Width	Prep Depth	RC Width
Rigid	5.0mm†	3.1mm	N/A	5.7mm
Resilient	5.8mm†	3.1mm	N/A	5.4mm
†Add 1.0m	m for patients	with habitually	strong bites.	

Cylindrical Rigid

Ittili	Nullibei
Dalla Bona Cylindrical (Dalbo®-Z)	801178
Female	801179
Male	801180
Paralleling Mandrel	801183
Processing Jig	801182
PVC Ring	801181
Activator	801175
DeActivator	801176

Number

Spherical Resilient

Item	Number
Dalla Bona Spherical (Dalbo®-Classic)	801187
Female	801188
Male	801189
Paralleling Mandrel	801183
Processing Jig	801182
PVC Ring	801181
Activator	801175
DeActivator	801176

^{*} Not available in some countries

Stern ERA® Direct Overdenture

- · Resilient precision attachment
- · Radicular snap
- · Universal hinge with vertical movement
- Nylon male
- · Stainless steel female with titanium nitride coating
- · Black fabrication male with built-in spacer
- Six color-coded males to create a consistent level of retention (white, orange, blue, grey yellow, red)
- Optional ERA Metal Jacket holds the attachment male in the denture base and is sold pre-loaded with a black fabrication male.
 Stainless steel to allow soldering or laser welding.
- Four post angles: 0° (straight), 5°, 11° and 17°
- Choice of two post diameters: 1.3mm or 1.7mm, both 9.0mm long
- · Males changed without use of autopolymerizing acrylic

Fixation

Male — retained directly in processed denture acrylic or an ERA Overdenture Metal Jacket

Female — post cemented in prepared root

Minimum Space Required

Height FC Width Prep Depth RC Width 4.0mm† 4.3mm 5.0mm 6.3mm

†Add 1.0mm for patients with habitually strong bites. ERA Metal Jacket thickness: 0.3mm



Small Dia. Large Dia.
Post Females Post Females

Master Kit 811400 811402

Kit Contains: Five females, (2-0°, 1 each 5°, 11°, and 17°), males, 5 sets of 5, (two each of white and black and one orange), 2 processing jigs, 2 alignment handles, 1 of each gutta percha drill, pilot drill, countersink bur, core cutter bur and seating tool, and 2 metal jackets.

Master Kit

(w/o core cutter & seating tool) 811405 811407

Kit Contents: Five females, (2-0° plus one each 5°, 11°, and 17°), males, 5 sets of 5, (two each of white and black and one orange), 2 processing jigs, 2 alignment handles, 1 each gutta percha drill, pilot drill, countersink, and 2 metal jackets.

Basic Kit 811410 811412

Kit Contains: Three females, (2-0° 1-11°) males, 3 sets of 5, (two each of white and black and one orange) 2 alignment handles, 1 of each pilot drill, countersink bur, core cutter bur, seating tool, and 2 metal jackets.

Basic Kit

(w/o core cutter and seating tool) 811415 811417

Kit Contains: Three females, (2-0° 1-11°) males, 3 sets of 5, (two each of white and black and one orange), 2 alignment handles, 1 each pilot drill, countersink bur, and 2 metal jackets.

Mixed Kit 811398 811398

Kit Contains: small diameter post females, 2-0° plus one each 5°, 11°, and 17°, large diameter post females, 2-0° plus one each 5°, 11°, and 17°, males, 10 sets of 5 - 2 ea of white, black and 1 orange, 2 sets of 4, 4 processing jigs, 4 alignment handles, pilot drills (1 small diameter and 1 large diameter), countersink burs (1 small diameter and 1 large diameter), gutta percha drill, core cutter bur and seating tool, and 2 metal jackets.



White, Orange, Blue, Grey, Yellow, Red



ERA Direct Overdenture Master Kit, #811400

ERA Direct Overdenture Complete Attachment

1 female, 2 black males, 2 white males, 1 orange male

	Small Post	Large Post
0°	811420	811470
5°	811425	811475
11°	811430	811480
17°	811435	811485

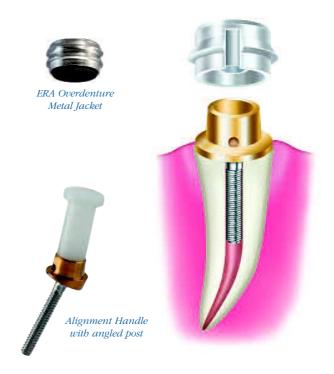
ERA Direct Overdenture Female

	Small Post	Large Post
0°	811421	811471
5°	811426	811476
11°	811431	811481
17°	811436	811486

ERA Overdenture Males

Item	Number
Black Fabrication, 5	811320
White, 5	811330
Orange, 5	811340
Blue, 5	811350
Grey, 5	811360
Yellow, 5	811370
Red, 5	811375
Assorted, 7	811365

1 each: black, white, orange, blue, grey, yellow and red



ERA Overdenture Components

ERA Overdenture Metal Jacket with fabrication male 811380 ERA Core Cutter Bur 811220 **ERA Seating Tool** 811230 **ERA Extraction Tool** 811027 Gutta Percha Drill 811440 Pilot Drill Small Post 811445 Large Post 811448 Counter Sink Bur Small Post 811450 Large Post 811452 Alignment Handles, 2 811455 **ERA** Overdenture Processing Jig 811395 ERA Lock Dispensing Gun 811903 ERA Lock Cement, 0.5 gms 811900 ERA Direct Overdenture Demonstration Model 811465 ERA Overdenture Impression Coping, Standard 811233

Demonstration

Model



ERA Lock Cement

Stern Root Anchor™

- Resilient precision attachment
- · Intraradicular ball and socket joint
- · Universal hinge
- Nylon male, titanium female
- Three color coded males for three levels of retention (lightest to strongest): white, orange, grey
- · Standard and mini size
- · Black collar males used with standard females
- · White collar males used with mini females

Fixation

Male — polymerized into denture acrylic Female — cemented directly into root preparation

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	FC Width	Prep Depth	RC Width
Standard				
Anchor	3.3mm†	4.7mm	7.0mm	5.5mm
Mini Anchor	3.3mm†	3.2mm	4.0mm	5.5mm
†Add 1.0mm for patients with habitually strong bite.				





Mini Female



Standard Female

Universal hinge movement Vertical resiliency Attachment female cemented in root

Stern Root Anchor™ Kits

5 Root Kit

5 females, 10 standard retention males, 5 transfer males, 5 caps, and choice of bur: One Step-Drill, Right Angle Diamond Bur or Friction Grip Diamond Bur.

	For Standard Female	For Mini Female
With One-Step Drill	833021	833031
With Right Angle Diamond Bur	833015	833025
With Friction Grip Diamond Bur	833020	833030

5 Root Refill Kit

5 females, 10 standard retention males, 5 transfer males, 5 caps, no bur

	For Standard Female	For Mini Female
5 Root Refill kit	833080	833085

10 Root Kit

10 females, 20 standard retention males, 10 transfer males, 10 caps, and choice of bur: One Step-Drill, Right Angle Diamond Bur or Friction Grip Diamond Bur

	For Standard Female	For Mini Female
With One-Step Drill	833041	833051
With Right Angle Diamond Bur	833035	833045
With Friction Grip Diamond Bur	833040	833050

10 Root Refill Kit

10 females, 20 standard retention males, 10 transfer males, 10 caps, no bur

	For Standard Female	For Mini Female
10 Root Refill Kit	833090	833095

10 Root Split Kit

5 standard females, 5 mini females, 10 standard retention males and 5 transfer males for standard size females, 10 standard retention males and 5 transfer males for mini size females, 10 caps, and choice of: One Step-Drill, Right Angle Diamond Bur or Friction Grip Diamond Bur

Item	Number
With One-Step Drills	833068
With Right Angle Diamond Burs	833066
With Friction Grip Diamond Burs	833067



Stern Root Anchor™

Stern Root Anchor Males

	For Standard Female black collar	For Mini Femalo white collar
Standard White Males, 5	833140	833240
Oversized Orange Males, 5	833150	833250
Extra Oversized Grey Males, 5	833151	833251
Transfer Blue Males, 5	833145	833245



Standard Transfer Male

Stern Root Anchor Drills & Burs

	For Standard Female	For Mini Female
One-Step Right Angle Drill	833111	833121
Latch Right Angle Diamond Bur	833105	833115
Friction Grip Diamond Bur	833110	833120



Mini Oversized Orange Male

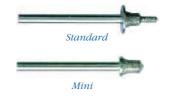
Item	Number
Standard Female	833125
Mini Female	833130
Caps, 5	833155
Female Replicas, 5	833160
Laboratory Spacers, 5	833170



One-Step Drill



Standard Mini



Latch Right Angle Diamond Bur

Friction Grip Diamond Bur

Stern Fluoride Gel

Stern 0.4% Stannous Fluoride Gel is an effective aid to caries prevention. We suggest daily home use by overdenture patients to protect abutment roots from caries. Stern Fluoride Gel is flavorless, which prevents annoying residual taste and helps avoid excessive salivation when used beneath an overdenture.

Number 833180



Bar Attachments

Bars splint two or more abutments and provide the option of attachment retention to a removable prosthesis. The abutment can be a prepared tooth with a cemented crown retainer, an endodontically treated root with a cast post and coping

Hader Bar®

- · Semi-precision bar attachment
- · Hinging movement
- · Plastic bar pattern, nylon riders
- · Mechanical snap retention

• Three color coded riders for three retentive strengths (lightest to strongest): white, yellow, red. Can be used with or without the Hader metal housing.

· Optional adjustable gold alloy rider

Fixation

Bar — pattern cast as part of retainer castings Nylon rider — retained in processed denture acrylic socket, optional metal housing available

Gold rider — polymerized into denture acrylic

Cast the bar pattern using alloys with a minimum Vickers hardness of 200 and at least 95,000 psi ultimate tensile strength. Appropriate choices are Pegasus™ ceramic alloy and Sterngold 100™ crown and bridge alloy for yellow gold castings.

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	FC Width	FC Height	RC Width
Nylon Rider	4.5mm†	1.8mm	2.5mm	5.0mm
Gold Rider	4.5mm†	1.8mm	2.5mm	5.0mm
†Add 1.0mm	for patients i	with habituall	y strong bites.	
Hader Housir	ig dimensior	is:		
Thickness,	0.3mm			
Width (win	ig edge to wi	ng edge), 5.0n	nm	
Length, 5.0	mm			

Item	Number
Hader Bar Kit	810001
2 bars, 6 yellow riders,	
6 fabricating riders, 1 seating tool	
Nylon Retention Riders, White, 6	810003
Nylon Retention Riders, Yellow, 6	810005
Nylon Retention Riders, Red, 6	810007
Fabricating Riders, 6	810010
Metal Housings, 6	810058
Bars Only, 6	810015
Seating Tool	810025
Gold Alloy Rider (Elitor) rider with spacer	801364
Hader Bar Processing Jig	810013

retainer, or it may be an artificial abutment supported by an osseointegrated dental implant. Attachment function can be rigid or resilient, depending on the bar chosen and on the case design.



ERA® Bar

The Weldable and Drill and Tap versions allow for attachment retrievability. The Weldable version is available in stainless or titanium. The Drill and Tap version is only available in titanium. As with all ERA attachments, these feature a black fabrication male with built-in spacer and there are six colored coded males for consistent level of retention over the life of the attachment. Optional Micro ERA metal jacket holds the attachment male securely in the denture base and comes preloaded with the black fabrication male. Males are changed without the use of auto polymerizing acrylic.

Laser Weldable Micro ERA Female (Stainless Steel) 811217 Laser Weldable Micro ERA Female (Titanium) 811218 Drill and Tap Micro ERA Female (Titanium) 811219 Bar ERA Drill 811221

Laser Weldable Micro ERA Female



Drill and Tap Micro ERA



Minimum Space Required

Height+ FC Width FC Height **RC Width** +6mm 3.5mm 4.4mm 5.4mm †Add 1.0mm for patients with habitually strong bites.









Bar Attachments

Dolder® Bar

- Precision bar attachment
- · Rigid bar unit or resilient, hinging bar joint
- · Gold alloy (Elitor) bar and channel
- Adjustable retention
- Two bar cross section designs: parallel walls for rigid unit or gingival taper for resilient joint
- Small and large cross sectional sizes
- 25mm and 50mm lengths

Fixation

Bar — soldered to retainer castings. If the retainers are porcelain-metal crowns, solder the bar after ceramic firing. Channel — polymerized into denture acrylic



	Height	FC Width	FC Height	RC Width
Small Unit	4.0mm†	1.6mm	2.3mm	5.5mm
Small Joint	4.7mm†	1.6mm	2.3mm	5.5mm
Large Unit	4.7mm†	2.2mm	3.0mm	6.5mm
Large Joint	5.7mm†	2.2mm	3.0mm	6.5mm

 $\dagger Add~1.0mm$ for patients with habitually strong bites.

Rigid Dolder Bar and Channel

	Small	Large	
25mm length	801321	N/A	
50mm length	801322	N/A	
Rigid Bar only			
25mm length	801327	801344	
50mm length	801328	801345	
Channel only			
25mm length	801333	801350	
50mm length	801334	801351	

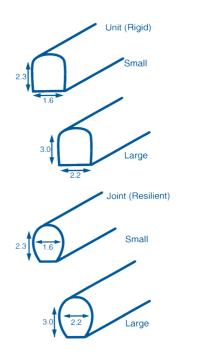
Resilient Dolder Bar and Channel

25mm length	Small 801324	Large N/A
50mm length	801325	N/A
Resilient Bar Only		
25mm length	801330	801347
50mm length	801331	801348
Channel only		
25mm length	801333	801350
50mm length	801334	801351
Paralleling Mandrel	801335	801352
Processing Jig	801337	801354

^{*} Not available in some countries







Supplemental Attachments

Unique attachments for specialized applications

IC Plunger

- · Precision spring operated plunger attachment
- · Limited vertical resiliency and hinge movement for removable partial dentures
- · All stainless steel
- · Does not require an abutment crown
- Two sizes: anterior (small) and posterior (large)
- · Long plunger versions for deeply undercut crown contours

Fixation

Male — plunger and spring unit — polymerized into denture acrylic Female — cemented into proximal surface of abutment tooth



IC with long plunger



IC with short plunger

Minimum Space Required

	Height	FC Width	Prep Depth	RC Width	RC Length*
Anterior					
Short	4.0mm†	2.0mm	0.8mm	4.0mm	6.0mm
Long	4.0mm†	2.0mm	0.8mm	4.0mm	6.5mm
Posterior					
Short	4.5mm†	2.5mm	0.9mm	4.5mm	7.0mm
Long	4.5mm†	2.5mm	0.9mm	4.5mm	7.5mm

†Add 1.0mm for patients with babitually strong bites. *Removable Component length is measured from the tip of the pawl to the end of the bousing plus 1mm.

Item	Number
IC Anterior	806001
IC Anterior with Long Plunger	806005
Female, Anterior	806007
Male, Anterior	806008
Male, Anterior with Long Plunger	806009
IC Posterior	806010
IC Posterior with Long Plunger	806015
Female, Posterior	806016
Male, Posterior	806017
Male, Posterior with Long Plunger	806014





MALE FEMALE

Schubiger (SB) Anchor

- · Precision screw base and sleeve anchor
- Rigidly anchors removable bars
- Gold alloy screw base (OSV), sleeve (Ceramicor), and cap nut (OSV)
- Features self locking threads to reduce accidental unscrewing



Schubiger Anchor

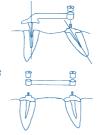
Fixation

Base — soldered to cast root coping
Sleeve — soldered, or cast to with most precious alloys

Minimum Space Required Definitions of Dimensions, page 1.2-3

Height FC Width 4.6mm[†] 4.1mm

†Add 1.0mm for patients with habitually strong bites.









*Not available in some countries

Supplemental Attachments

Tube and Screw (Cap Screw)

- Precision screw, collar and threaded tube
- · Rigidly connects primary and secondary telescoping castings
- Gold alloy tube (Ceramicor), collar (Ceramicor), and screw (OSV)
- Screw connections are used in dentist removable fixed partial dentures, case designs which accommodate non-parallel abutments, and implant restoration.
- The threaded tube is in the cemented primary casting.
 The collar is in the removable secondary casting and provides a precision seat for the head of the screw. The screw holds the primary and secondary castings together.

Fixation

Tube — fixed component, cast to with most precious alloys Collar — removable component, cast to with most precious alloys

Minimum Space Required Definitions of Dimensions, page 1.2-3

	Height	Prep Depth	FC Width	RC Width
1.0mm di	am.			
Short	4.6mm	2.6mm	2.6mm	3.1mm
Long	6.3mm	2.6mm	2.6mm	3.1mm
1.2mm di	am.			
Short	4.8mm	2.8mm	2.8mm	3.3mm
Long	6.8mm	2.8mm	2.8mm	3.3mm
1.4mm di	am.			
Short	5.8mm	3.0mm	3.0mm	3.7mm
Long	7.8mm	3.0mm	3.0mm	3.7mm

Tube and Screw complete attachment

Waxing screw and fixing pin included

Waxing screw and fixing pin in	ıcluded	
	Short	Long
1.0mm diam.	801592	801561
1.2mm diam.	801558	801562
1.4mm diam.	801593	801563
Tube	Short	Long
1.0mm diam.	801543	801577
1.2mm diam.	801590	801578
1.4mm diam.	801545	801579
Screw	Short	Long
1.0mm diam.	801542	801567
1.2mm diam.	801588	801568
1.4mm diam.	801544	801569
Fixing Pin		
1.0mm diam.	801581	
1.2mm diam.	801582	
1.4mm diam.	801583	
Collar		
1.0mm diam.	801572	
1.2mm diam.	801574	
1.4mm diam.	801575	
Tap		
1.0mm diam.	801624	
1.2mm diam.	801626	
1.4mm diam.	801564	
Tap holder	801557	

Screwdriver

Used for Tube and Screw and Locking Screw

For 1.0mm	diam Tube and Screw	801550
For 1.2mm	and 1.4mm diam. Tube and Screw	801552



Locking Screw (Pin Screw)

The Locking Screw is a short threaded screw with a screw slot. It is mounted horizontally in the secondary crown. A dimple is made in the primary crown into which the Locking Screw is engaged, thus locking the secondary crown on the primary crown.

Locking Screw

For locking crowns to understructures	
1.4 mm	801548
1.6 mm	801549
Locking Screw Tap	
1.4 mm	801551
Used for the 1.4mm Locking Screw 1.6 mm	801553
Used for 1.6mm Locking Screw	
Locking Screw Twist Drill	
1.2 mm Used for 1.4mm Locking Screw	801776
1.4 mm Used with 1.6mm Locking Screw	801778
Locking Screw Center Drill	
1.2 mm Used for 1.4mm Locking Screw	801633
1.4 mm	801630



Used for 1.6mm Locking Screw

Locking Screw



Attachment Fabrication Supplies

Master Endopost Kit



Economical plastic post patterns in two sizes for cast post and core build-ups, and for root cap copings. The kit includes tapered sizing drills for post site preparation, impression transfer posts, and burnout patterns. Precision made in Austria by Hader.

Dimensions

	Length	Occlusal diam.	Apical diam.
Small post	10.6mm	1.20mm	0.55mm
Large post	12.0mm	1.65mm	0.75mm

Master Kit 810030

Small drill, large drill, and 25 each of large transfer post, large post pattern, small transfer post, and small post pattern

Laboratory Post Kit 810035

50 each of large and small post burnout patterns

Liquid Sizing Graphite



Thermal stress caused by casting against an intracoronal attachment's precision female, or oxide formation during porcelain firing, can cause the attachment to tighten slightly. Finely abrasive Liquid Sizing Graphite perfects the fit by removing small irregularities. Apply a film of paste. Then seat and separate the attachment components several times. For laboratory use only; do not use intraorally.

Number 801656

Stern Attachment Gauge



Available space is a primary limitation on your attachment choices. The Attachment Gauge helps you make case design systematic by measuring the attachment site and eliminating overly large attachments from consideration. Its steps measure study casts for occlusogingival space in 1mm increments. Made of gold plated brass with etched markings, the gauge can be disinfected, or even autoclaved.

Number 812018

ERA® PickUp™

Tissue-colored, self-curing attachment processing material

Advantages

- Odorless
- Low curing temperature
- Tasteless
- Less than 1 percent shrinkage resulting in a more accurate and complete pickup of the attachment.
- When used with the ERA Implant System, it will not irritate freshly sutured tissue like methyl methacrylate will.

Item	Number
ERA PickUp Syringe and Tips	220235
1 syringe @ 15 grams and 15 tips	
ERA PickUp Syringe, Tips &	
SternVantage Varnish LC	220237
1 syringe @ 15 grams, 15 tips and	
1 bottle of 5 ml Varnish LC	
ERA PickUp Tips	220233
15 tips	
SternVantage Varnish LC	221001
20 11 11	

ERA PickUp will only chemically bond to acrylic if a primer is used. Use SternVantage Varnish LC as a primer for acrylic.



Rubber Sep

Rubber Sep is a latex rubber blockout material. Applied in a thin layer, it protects precision attachments during acrylic processing of partial dentures and overdentures. It is also useful as a die spacer in the fabrication of acrylic temporary crowns.

Number 812045

ERA PickUp



Fiberglass Polishing Brush

Conventional polishing techniques will destroy a precision attachment's fit, but you can safely create a satin finish with a few

strokes of the Fiberglass Polishing Brush. It removes oxides and discoloration without removing dangerous amounts of metal. A control knob at the end of the brush lets you adjust its stiffness by changing the length of its soft glass bristles. Worn bristles are easily replaced with a brush refill.

]	Item	Number
Fiberglass I	Brush	801660
Brush Refil	ls, 12	801665



Indelible Pens

The best fiber tip marking pens we have ever used. They are perfect for marking casts in the laboratory. Truly indelible,

you can even use them to label plastic case pans and porcelain trays.

puno una porcenum uny	
Item	Number
Assorted, 4	812015
Blue, 4	812016

Equipment and Consumables

SternTek® Light Box

A light-polymerization unit using the combination of UVA and blue light universal field operation

Storagaid Restorative Systems

Advantages

- Blue light and UVA rays are emitted
- · Glare protection when chamber is closed
- · High light intensity
- Short curing times for custom trays or coating of denture bases
- Operating life for light tubes 1,000 hours

Item	Number
SternTek Light Box	222006
Light Bulb - Blue	222007
Light Bulb - UV	222008



Tapered Dowel Index (TDI) System

The TDI system gives you accurate, stable, double doweled dies for your crown and bridge models at an economical price. The concept is simple and the process is quick and easy. Just drill two holes in the die's bottom with your parallel pin spotter. Cement a standard brass die pin in one hole and slip a red friction sleeve on its tip. Then place (without cement) one of our styrene plastic, tapered dowels in the other hole. Now paint the die stone with a good separating medium and pour the model base. That's it!

model base. That's it!	
Item	Number
Brass Dowel Pins, Smooth For cementation into pre-drilled dowel pin sites 1000 per bag	3499997
Brass Dowel Pins, Knurled For placement in unset stone 1000 per bag	3499999
TDI Styrene Dowel Pins 1000 per bag	3340108
Red Friction Sleeves 1000 per bag	3340104
Blue Friction Sleeves 1000 per bag	3340109
Instaset Cyanoacrylate Cement	3707790
Model Base Formers, Full arch	3340130
Model Base Formers, Quadrant	3340131

Procedure Manual CD

The Sterngold Procedure Manual is a standard reference in attachment dentistry. It is filled with information essential for attachment restoration work. Dentists and dental technicians are both aided in successful case design and construction. Each attachment is addressed individually by citing appropriate applications and giving detailed, step-by-step fabrication instructions. Consider this to be your CD-Cookbook of Attachments and buy one today.

Number 816001 - CD



Blaster/Pencil Complete Model 2100

The only self-contained vacuum cabinet for air abrasive blasting which has no motor and no motor bearings to wear and burn out. Instead, the cabinet connects to your laboratory's compressed air supply. A Venturi device with no moving parts, and double air filtration, generates a vacuum and exhausts clean air. The system is complete with air filter, regulator, and one foot control which operates the Venturi suction, 3 pr gloves 1 ea. of sm, med, and lg, and both pencils. Dimensions 15" Wide X 24" Deep X 17" Tall. Unit weighs 32.5 pounds

Number 2102246

Ceramic Tip



Ceramic-lined replacement tip for the Micro Pencil air abrasive blaster. Used with virgin aluminum oxide to prepare ceramic alloys for porcelain application.

Number 7102010

Carbide Tip



Carbide-lined replacement tip for the Micro Pencil air abrasive blaster. Used with recycling abrasive to remove investment from castings because it is more wear resistant than ceramic lined tips.

Number 7102251

Attachment Fabricating Supplies1	.23
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