



User manual

Implant Libraries v9.2.0

Everything you need to know about the
Avinent libraries update

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1. Introduction

This document provides information about the new developments in the **Avinent CAD-CAM Implant Library for 3Shape**.

2. General parameters

In **Avinent CAD-CAM** Implant Library, the names and descriptions of the following have been updated: Materials, Production Processes, Implant System Categories, Implant Systems and Abutment Kits.








2.1. Avinent CAD CAM - Materials and Production Processes

- ✓ Description for all materials and production processes
 - with the Avinent name.
- ✓ Links between Implant Systems, Materials and Production Processes - optimising the specific production parameters for the machining of each material.

2.2. Avinent CAD CAM - Implant System and Categories

- ✓ Identification of the Abutment Kits, depending on the Implant System and Category

- ✓ Description for the Implant Systems and Categories - with the Avinent name.

	Avinent CAD CAM descriptions	
Category	Avinent Bridge and Full Arch	
Systems	Ex: Avinent Bridge and Full Arch (Avinent)	
Category	Avinent Multiple Titanium Sintered	Sintered Titanium
Systems	Ex: Avinent Ti Sint. Multiple (Avinent)	
Category	Avinent Multiple CrCo Sintered	Sintered Cobalt Chrome
Systems	Ex: Avinent CoCr Sint. Multiple (Avinent)	
Category	Avinent Single Abutment	
Systems	Ex: Avinent Single Abut (Avinent)	
Category	Avinent CoCr Sintered Single Abutment	Sintered Cobalt Chrome
Systems	Ex: AvinentCoCr Sint Single (Avinent)	
Category	Avinent Cuttable Ti Base Multiple	
Systems	Ex: Avinent Cuttable Ti Base Multiple (Avinent)	
Category	Avinent Cuttable Ti Base Single Abutment	
Systems	Ex: Avinent Cuttable Ti Base Single(Avinent)	
Category	Avinent Angulation Correccion Ti Base Multiple	
Systems	Ex: Avinent Ang. Correc. Ti Base Multiple (Avinent)	
Category	Avinent Angulation Correccion Ti Base Single	
Systems	Ex: Avinent Ang. Correc. Ti Base Single (Avinent)	

Category	System	Kit
<ul style="list-style-type: none"> • Avinent - Avinent • Avinent - Straumann • Avinent - Biomet (...) 	Bridge and Full Arch (Avinent)	Con + Bridge
		Con + Full Arch
		Con
	Single Abutment (Avinent)	Con
	Sint. Ti Multiples (Avinent)	Con
	Sint. CoCr Multiples (Avinent)	Con + Bridge
		Con + Full Arch
		Con
	Sint. CoCr Single (Avinent)	Con
	Ti Base Multiples (Avinent)	Con + GH + H + Mult
	Ti Base Single (Avinent)	Con + GH + H + Unit
	Cutable Ti Base Multiples (Avinent)	Con + GH + H + Mult
	Cutable Ti Base Single (Avinent)	Con + GH + H + Unit
	Correc. Ang. Ti Base Multiple (Avinent)	Con + GH + H + Mult
	Correc. Ang. Base Ti Single (Avinent)	Con + GH + H + Unit

*Con: Connection

3. Improvements to Implant Systems

3.1. Bridge and Full Arch

3.1.1 Connector/Centring device to implant:

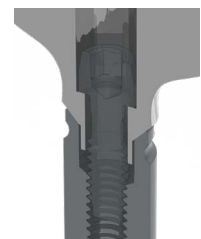
Two design options added for the connector of the customised prosthesis to the implant, **Bridge** and **Full Arch**, with the aim of improving the fit of the restoration. The type of connector can be selected for each implant position in the configuration of the order, Abutment Kit (Fig. 1), during the design phase.



Fig. 1 Abutment Kit drop-down menu

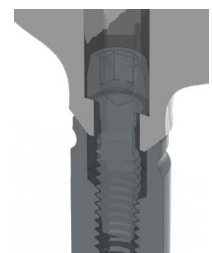
Bridge – Long Connector; Bridges

- For restorations with up to 3 implants.
- Insertion axis, divergences between implants of up to 15°.
- Provides good stability for both prosthesis and screw.
- Available for internal and conical connections.



Full Arch / Bridge and Full Arch - Short Connector; Full Arches

- For restorations with more than 3 implants to full arches.
- Gives the restoration passivity and ensures its insertion, even in cases with large divergences between the insertion axes of the implants.
- Available for all connections.



3.1.2. Designation of Abutment Kits of the Bridge and Full Arch Implant System:

Connection	Type of connector	
EC 3.5	BFA	Bridge and Full Arch
IC 3.5 - 4.1	B	Bridge
IC 3.5 - 4.1	FA	Full Arch

3.1.3. Angle of the screw channel:

Possibility of designing the screw channel with angle correction added (*). This can be selected in the assembly phase of the design, enabling the verification checkboxes **Use screw hole** and **Angled screw hole** (Fig. 2)

- Correction of the screw channel angle, which depending on the connection goes from 0 to 20° or from 0 to 30° to the implant insertion axis, design in accordance with the customer's criteria.
- Saves time in the customer design validation process.
- Reduces the time for delivering the work to the customer.



Fig. 2 Fitting Phase

* It is very important to include the pertinent angle corrections in the design, in accordance with the customer's criteria.

3.2. Ti Base Multiple and Ti Base Unitary

The gingival height of the Multiple and Unitary Ti Bases have been added in the description of the Abutment Kits (Fig. 3).

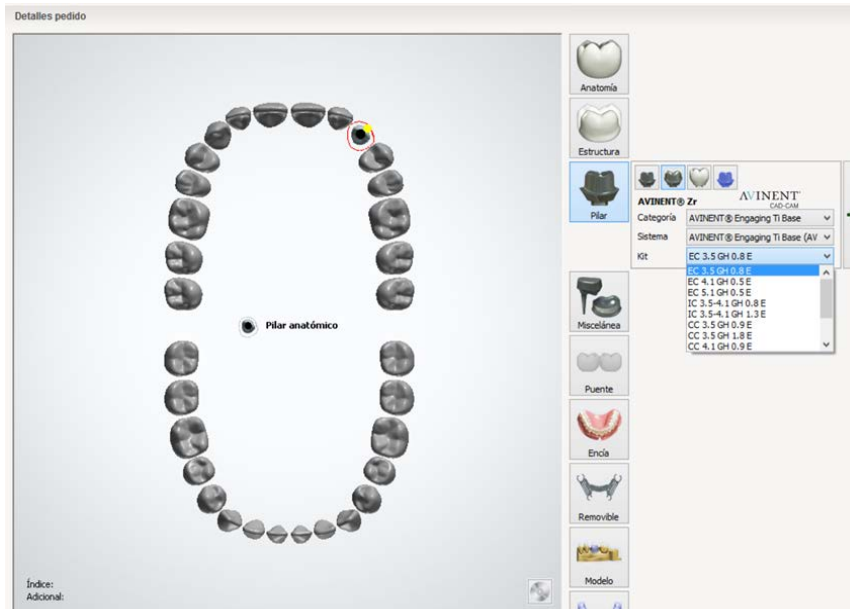


Fig. 3 Description of the Base Abutment Kits

4. New implant systems

4.1. CoCr Sintered Multiples

New implant system for multiple restorations, using sintered cobalt chrome.

4.1.1 Conector/Centring device to implant:

Like for the Bridge and Full Arch implant system, the **CoCr Sintered Multiples** considers two design options for the connector between the customised prosthesis and the implant, **CoCr Sintered Bridge** and **CoCr Sintered Full Arch**, to improve the fit of the restoration. The type of connector can be selected for each implant position in the configuration of the order, Abutment Kit (Fig. 4), during the design phase.

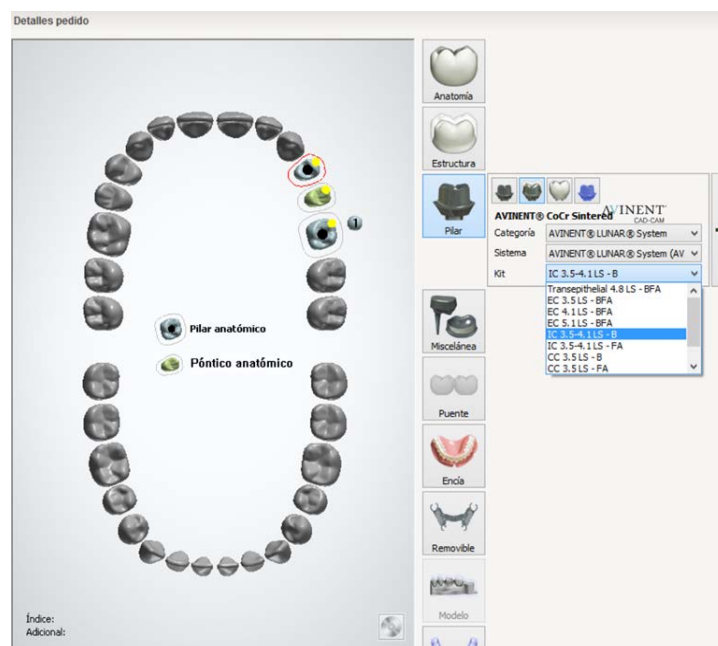
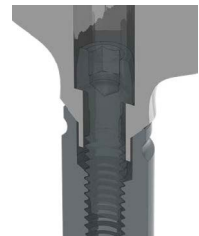


Fig. 4 Description of the Lunar System Abutment Kits

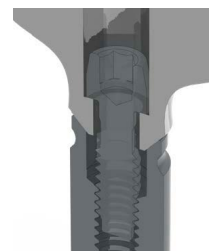
Bridge – Connector Long; Bridge

- For restorations of up to 3 implants.
- Insertion axis, divergence between implants up to 15°.
- Provides good stability to the prosthesis and the screw.
- Available for Internal and Conical connections.



Full Arch - Connector Short; Full Arch

- For restorations of more than 3 Implants up to Arches complete.
- Confers passivity to the restoration, ensuring insertion of this, even in cases with great divergence between the axes of implant insertion.
- Available for all connections.



Bridge and Full Arch - If only the name of the connection appears.

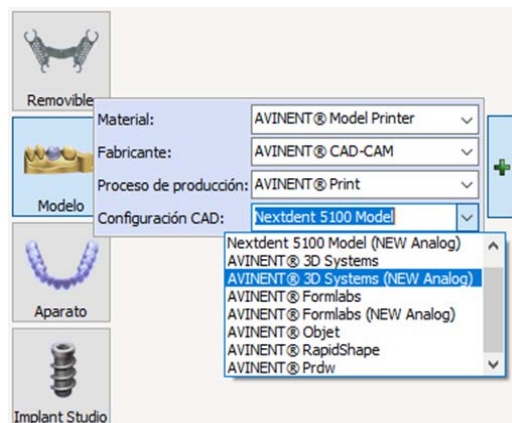
4.2. CoCr Sintered Single Abutment

New implant system for single restorations, using sintered cobalt chrome.

- ✓ Enables the correction of the screw channel angle with respect to the implant insertion axis.
- ✓ Ideal for the design of single abutments that exceed the maximum dimensions for the milling based on grinding

⚠ 4.3. Conical Connection Iceberg (CC.I)

New analog for the ICEBERG implant system. For a **Model Builder** with this implant system, select the printers designated as NEW Analog.



5. News

5.1. Titanium Bases Upgrade

- ✓ Convergent emergence profiles, more gingival height possibilities, greater anti-rotation zone between base and crown.

Angled Ti Bases

AVINENT® EC (3.5 | 4.1 | 5.1)
AVINENT® Transepithelial 4.8
AVINENT® IC (3.5/4.1)
AVINENT® CC (3.5 | 4.1)
Nobel Biocare® Nobel Active™ (NP | RP)
Zimmer® TSV (3.5 mmD)
MIS Implants® Internal Hex. (SP)
BIOHORIZONS® Tap Int (3.5)

Ti Bases

AVINENT® CC (3.5 | 4.1)
Nobel Biocare® Nobel Active™ (NP | RP | WP)
Straumann® (NC)
Biomet 3i™ Internal Certain® (3.4 | 4.1)

Ti Bases Tallables

AVINENT® CC (3.5 | 4.1)
Nobel Biocare® Nobel Active™ (NP | RP)
Zimmer® TSV (3.5 mmD)
MIS Implants® Internal Hex. (SP)
BIOHORIZONS® Tap Int (3.5)
Straumann® (NC | RC)

5.2. New Titanium Bases

Angled Ti Bases

AVINENT® EC (5.1)
AVINENT® Transepithelial 4.8
AVINENT® CC.I (3.5 | 4.1)
Nobel Biocare® Nobel Active™ (WP)
Nobel Biocare® Branemark Multi Unit (NP | RP)
Zimmer® TSV (5.7mmD)
BIOHORIZONS® Tap Int (5.7)

Ti Bases Tallables

AVINENT® EC (3.5 | 4.1 | 5.1)
AVINENT® Transepithelial 4.8
AVINENT® IC (3.5/4.1)
AVINENT® CC (3.5 | 4.1)
Nobel Biocare® Nobel Active™ (NP | RP | WP)
Nobel Biocare® Branemark Multi Unit (NP | RP)
Zimmer® TSV (3.5 | 4.5 | 5.7mmD)
MIS Implants® Internal Hex. (SP | WP)
BIOHORIZONS® Tap Int (3.5 | 4.5 | 5.7)
Straumann® (NC | RC)
Biomet 3i™ Internal Certain® (3.4 | 4.1 | 5.0)