





PEARL is the Avinent system of mini implants, an innovative product with unique features that aims to provide a quality alternative to what is available today as regards the range of solutions for removable, minimally invasive prostheses.

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Biomimetic

A unique and resistant mini implant

The Biomimetic PEARL system of mini implants is Avinent's innovative solution to provide a quality product as regards the range of systems for removable, minimally invasive prostheses.

It is a unique mini implant whose exclusive two-piece design makes it very easy to position the attachment and thereby control soft tissue. In addition, its polished collar is an ideal feature for unbeatable aesthetic results.

PEARL has been designed to help surgeons cover various gingival heights for a much more complete solution. It also benefits from a single protocol and unprecedented versatility, in addition to a very intuitive surgical procedure.

The PEARL mini implant also preserves the unique characteristics of CORAL and OCEAN implants as regards the BIOMIMETIC ADVANCED SURFACE (BAS), which is based on the biochemical processes taking place in nature that encourage osseointegration.





- Innovative two-piece design to help insert the attachment.
- Three different diameters, 2,0 / 2,4 / 2,8 mm, for a wide range of possibilities in all cases and maintaining the same platform in all diameters (3,0 mm).
- ▶ Polished collar for improved aesthetic results.
- Double progressive and asymmetric thread, which enables the implant to adapt perfectly to the various areas of the bone, thereby guaranteeing its penetration capacity in the apical zone and compacting capability in the area of the implant body.
- BIOMIMETIC ADVANCED SURFACE, which increases bone-implant contact (BIC) and accelerates osseointegration.
- Easy and intuitive drilling protocol.







Unique two-piece design

PEARL is characterized by an innovative two-piece design (implant and abutment) that provides great versatility to practitioners and represents an ideal solution for removable, minimally invasive prostheses, as well as allowing immediate loading in cases of complete restoration and osseointegration over time.

The mini implant also features a polished collar for improved aesthetic results.

ø 2,0 mm











Three diameters for all solutions

The PEARL system has three different diameters providing a wide range of possibilities in all cases and maintaining the 3,0 mm platform in all diameters.

PEARL's 2,0 mm diameter is suitable for mandibles, its 2,4 mm for mandibles and maxillae and its 2,8 mm is recommended for maxillae, a perfect choice for all types of cases.



Intuitive, effective placement

The system incorporates a transporter whose function is to prevent soft tissue collapse from insertion of the implant to the placement of the abutment.



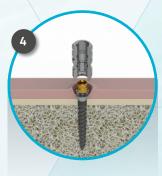
Placement of the implant alongside the transporter



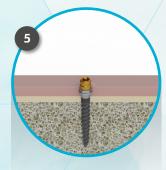
Removal of the screw once the transporter is positioned



Placement of guided Rhein abutment thanks to the transporter, avoiding soft tissue collapse



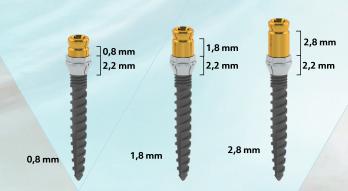
Removal of transporter



Tissue fit around the abutment



Placement of final restoration



Attachment to control soft tissues

The PEARL system has three different attachments to resolve height differences in gums of varying thickness. This fact implies a safety margin for practitioners when it comes to positioning the mini implant because it provides them with different options according to the final placement result.

Biomimetic PEARL

SURGICAL PHASE	Platform Ø 3 mm					
	Ø 2,0 mm	Ref.	Ø 2,4 mm	Ref.	Ø 2,8 mm	Ref.
Implant	2,0 x 10 mm 2,0 x 11,5 mm 2,0 x 13 mm 2,0 x 15 mm	3819 3916 3826 3930	2,4 x 10 mm 2,4 x 11,5 mr 2,4 x 13 mm 2,4 x 15 mm	3919	2,8 x 10 mm 2,8 x 11,5 mm 2,8 x 13 mm 2,8 x 15 mm	3920 3921 3922 3932
Cover screw	4199					
	Platform Ø 3 mm					
	Ø 3,5 mm		Ref.	Ø 4,0 mn	n Re	ef.
Healing abutment	H 2,5 H 3,5 H 5,5		6016 6017 6018	H 2,5 H 3,5 H 5,5	60	119 120 121

PROSTHETIC PHASE	Platform Ø 3 mm		
		Ø 2,5 mm	Ref.
Overdenture abutment		2,5 x 0,8 mm 2,5 x 1,8 mm 2,5 x 2,8 mm	4166 4167 4168
Processing cap (2 u.) ¹		33	17
Processing cap Smart Box ²		42	10
Smart Box Housing ²		42	11
Tool for insertion and extraction caps		42	09
Impression coping	8	33	18
Analog		33	19
Retention replacement male purple** (2,7 kgf)		33	22
Retention replacement male white** (1,8 kgf)		33	23
Retention replacement male pink** (1,2 kgf)		33	24
Retention replacement male yellow** (0,6 kgf)		33	25
Retention replacement male black** (Only for laboratories)		46	95
Retention replacement Smart Box** (Only for laboratories)		42	12



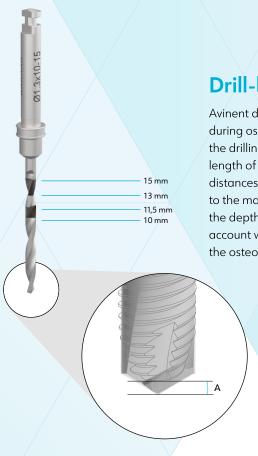
ACCESORIES				Ref.
MiniBox				0526
Torque wrench				0295
Screwdrivers	0	Screwdriver ISO 1797 L (048)		0277
	0	Implant driver ISO 1797 EC/IC L (2.5)		2693
		Screwdriver gold screw ISO 1797 Screwdriver Rhein 83 abutment		0263
Screwdriver handle		Handle ISO 1797 S		0791
Implant handle	_	Handle ISO 1797 S Handle ISO 1797 L		1878 2891
Monoblock screwdrivers		Screwdriver S (048)		0274
	\Diamond	Implant driver S (2.5)		0278
Drills	(16. 15.04	Tissue punch		4165
	and the second	Drill	1,3 x 10 - 15 mm 1,6 x 7 - 15 mm 2,0 x 7 - 15 mm 2,4 x 10 - 15 mm	3956 2046 0089 3957
Drill extension ISO 1797			К	I589B204

^{**} In blisters of four units

¹ Maximum angulation 25° ² Maximum angulation 50°

Drill stops		Ø1,3-2,4 L7	6984
31 300p3	1	Ø1,3-2,4 L8,5	698
	l ²	Ø1,3-2,4 L10	6986
		Ø1,3-2,4 L11,5	6987
		Ø1,3-2,4 L13	6988
		Ø1,3-2,4 L15	6989
	*	Ø2,8-3,3 L7	6990
	(b	Ø2,8-3,3 L8,5	699
		Ø2,8-3,3 L10	6992
		Ø2,8-3,3 L11,5	6993
		Ø2,8-3,3 L13	6994
		Ø2,8-3,3 L15	6995
_		Ø3,2-3,8 L7	6990
	d.	Ø3,2-3,8 L8,5	6997
		Ø3,2-3,8 L10	6998
		Ø3,2-3,8 L11,5	6999
		Ø3,2-3,8 L13	7000
		Ø3,2-3,8 L15	700
-	*	Ø3,6-4,3 L7	7002
		Ø3,6-4,3 L8,5	7003
		Ø3,6-4,3 L10	7004
		Ø3,6-4,3 L11,5	700
		Ø3,6-4,3 L13	700
		Ø3,6-4,3 L15	7007
Drill Stops Kit for implants up to Ø4,5	Comme.		7959





Drill-bit length and marking

Avinent drills carry laser markings to improve visibility during osteotomy and follow a point code according to the drilling sequence. The marking corresponds to the length of the implant in crestal placement, but the distances are not absolute from the tip of the instrument to the mark. The length of the drill tip is not included in the depth mark, so this distance must be taken into account when planning treatment and in carrying out the osteotomy.

DRILL	Α
ø 1,3 mm	0,35 mm
ø 1,6 mm	0,35 mm
ø 2,0 mm	0,50 mm
ø 2,4 mm	0,50 mm

Advisable torque

TYPE	VALUE	
Mechanical	35 Ncm	Screw for single abutment*
	15 Ncm	Temporary Abutment Ti
	25 Ncm	RHEIN83° Abutment (OT Equator)
Manual	≈8-15 Ncm	Scan Abutment
		Impression coping open/closed tray engaging
		Healing Abutment Ti
		Healing cap

^{*}Regarding: Titanium base, Cemented abutment and Cemented angled abutment, Castable CoCr Base.

Instruments and surgical kit

Avinent provides specialists with high precision instruments whose design is adapted to the implant. Avinent's smaller and more versatile compact kit allows you to select a specific sequence and take everything required for the surgical procedure with you in a small container. The kit is sterilizable and can hold all the items needed for inserting prostheses.



	rpm
Drill ø 1,3 mm	800 - 1.200
Drill ø 1,6 mm	200 - 400 *
Drill ø 2,0 mm	200 - 400 *
Drill ø 2,4 mm	200 - 400

^{*} Important note: A drilling speed of 800 - 1.200 rpm is recommended when using 1,6 mm and 2,0 mm drill bits for initial drilling.

Maximum recommended torque for implant insertion: 45 Ncm

Recommended torque to achieve a good primary stability: 30-35 Ncm

Maximum recommended speed for implant insertion: 20 rpm





Tissue punch

The Avinent tool that can make a circular cut of soft tissue. The markings it carries help to identify which Rhein abutment needs to be placed according to gum thickness.



Mark 1*, 2* and 3 mm:

suitable for 0,8 mm attachment

Mark 4 mm:

suitable for 1,8 mm attachment

Mark 5 mm:

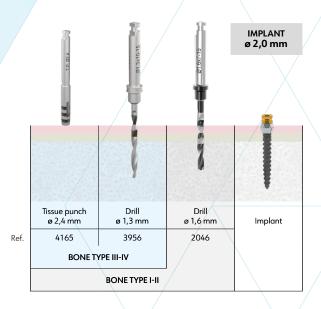
suitable for 2,8 mm attachment

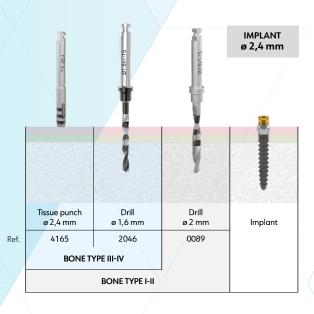
* Marks 1 and 2 mm will leave the implant exposed.

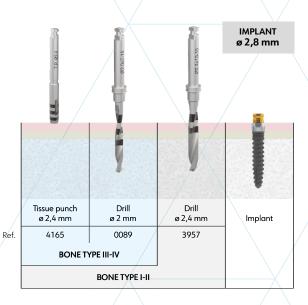
Avinent drilling protocol

The PEARL system surgical drilling protocol makes for easy, intuitive and streamlined placement in order to prioritize soft tissue and emergency profile preservation for excellent, practical results.

Avinent PEARL is suitable for all bone types. The diameter of the system's helical drill bits is related to the implant core to be inserted, so it is advisable to follow the system's own drilling and instrument sequence. The finish of the drills makes it easier to locate the length indicator marks during surgery.







Sterilization and packaging







Avinent implants are subjected to a sterilization process in accordance with the requirements of the CE mark for medical products. Avinent supplies its implants in packaging that is easily identified by a simple color code. The vial stopper is white and has a sticker indicating the diameter and length of the implant.

The Avinent implant system is sold in a sterile blister pack, which ensures that the implant is fully protected until the given expiry date, provided that it is stored in suitable conditions.

Avinent supplies labeling with all its products that ensures every item can be properly traced by means of stickers that can be used in the patient's case history or in any other documentation require.











Opening the packaging

- Open the box and take out the blister pack.
- Open the blister pack and leave the vial containing the implant in the sterile working area, avoiding contact with any item that is not sterile. The sterile blister pack must not be opened prior to use.
- Open the vial by gripping the white stopper with one hand while holding the transparent part in the other.
- Fit the transporting tool (manual or mechanical for contra-angle) to the implant
- Press to make a tight fit and raise the implant set slightly.

Information on implant box

Rx only



Manufacturer:
AVINENT Implant System S.L.U.
Pol. Ind. Santa Anna I, 08251 Santpedor (Barcelona) Spain.

STERILE R







Implant box label

Implant ø 2.8 x 10 (3.0) Ti **REF** 1558

ES Implante PT Implante FR Implant

FR Impion.
(01) 08435452001046
(10) XXXXX LOT



Labels for product traceability

AVINENT ø 2.8 x 10 (3.0) REF 1558 LOT XXXX



ø 2.8 x 10 (3.0) REF 1558 LOT XXXX



AVINENI Implant Ø 2.8 x 10 (3.0)

REF 1558 LOT XXXX

GTIN 08435452001046 | 1338 | LOT | XXXX | GTIN | 08435452001046 | STERILER | □ | AAAA-MM-DD | | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 1345 | 13



Purchasing / Compra REF 1558 LOT XXXX

ø 2.8 x 10 (3.0)	Diameter x length (implant holder)
Ti	Titanium
REF 1558	Reference number
LOT _{XXXXX}	Batch code
□ AAAA-MM-DD	Expiry date
STERILE R	Sterile. Sterilization method: radiation
ifu.avinent.com	Consult instructions for use
	Manufacturer
(€	CE Mark NB num 0197. TÜV Rheinland
Rx only	(For the USA only) CAUTION: Federal law restricts this device to sale by or on the order of a physician
(01) 08435452001046 (10) XXXXX (17) AAMMDD	UDI (Unique Device Identifier Carrier)
②	Do not re-use
3	Do not resterilize

Product index

REF.	DESCRIPTION PAGE		REF.	DESCRIPTION PAGE	
0089	Drill ø 2,0 x 7 - 15 mm	W9	4695	Retention replacement male black (4 u.)	8
0263	Screwdriver gold screw ISO 1797	9		(Only for laboratories)	
	Screwdriver Rhein 83 abutment		6016	Healing abutment H 2,5 ø 3,5 (3,0)	9
0274	Screwdriver S (048)	9	6017	Healing abutment H 3,5 ø 3,5 (3,0)	9
0277	Screwdriver ISO 1797 L (048)	9	6018	Healing abutment H 5,5 ø 3,5 (3,0)	9
0278	Implant driver S (2.5)	9	6019	Healing abutment H 2,5 ø 4,0 (3,0)	9
0295	Torque wrench	9	6020	Healing abutment H 3,5 ø 4,0 (3,0)	9
0526	MiniBox	9	6021	Healing abutment H 5,5 ø 4,0 (3,0)	9
KI589B204	Drill extension	9	6984	Drill Stop Ø1.3-2.4 L7	12
0791	Handle ISO 1797 S	9	6985	Drill Stop Ø1.3-2.4 L8.5	12
1878	Implant handle S	9	6986	Drill Stop Ø1.3-2.4 L10	12
2046	Drill ø 1,6 x 7 - 15 mm	9	6987	Drill Stop Ø1.3-2.4 L11.5	12
2693	Implant driver ISO 1797 EC/IC L (2.5)	9	6988	Drill Stop Ø1.3-2.4 L13	12
2891	Implant handle L	9	6989	Drill Stop Ø1.3-2.4 L15	12
3317	Rhein 83 Processing cap (2 u.)1	8	6990	CORAL/OCEAN/ICEBERG Drill Stop Ø2,8-3,3 L7	12
3318	Rhein 83 impression coping	8	6991	CORAL/OCEAN/ICEBERG Drill Stop Ø2,8-3,3 L8,5	12
3319	Rhein 83 analog (2 units)	8	6992	CORAL/OCEAN/ICEBERG Drill StopØ2,8-3,3 L10	12
3322	Retention replacement male purple (2,7 kgf) (4 u.)	9	6993	CORAL/OCEAN/ICEBERG Drill Stop Ø2,8-3,3 L11,5	12
3323	Retention replacement male transparent (1,8 kgf) (4 u.)	9	6994	cORAL/OCEAN/ICEBERG Drill Stop Ø2,8-3,3 L13	12
3324	Retention replacement male pink (1,2 kgf) (4 u.)	9	6995	CORAL/OCEAN/ICEBERG Drill Stop Ø2,8-3,3 L15	12
3325	Retention replacement male yellow (0,6 kgf) (4 u.)	9	6996	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L7	12
3819	Biomimetic Pearl implant 2,0 x 10 (3,0)	8	6997	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L8,5	12
3826	Biomimetic Pearl implant 2,0 x 13 (3,0)	8	6998	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L10	12
3916	Biomimetic Pearl implantl 2,0 x 11,5 (3,0)	8	6999	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L11,5	12
3917	Biomimetic Pearl implant 2,4 x 10 (3,0)	8	7000	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L13	12
3918	Biomimetic Pearl implant 2,4 x 11,5 (3,0)	8	7001	CORAL/OCEAN/ICEBERG Drill Stop Ø3,2-3,8 L15	12
3919	Biomimetic Pearl implant 2,4 x 13 (3,0)	8	7002	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L7	12
3920	Biomimetic Pearl implant 2,8 x 10 (3,0)	8	7003	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L8,5	12
3921	Biomimetic Pearl implant 2,8 x 11,5 (3,0)	8	7004	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L10	12
3922	Biomimetic Pearl implant 2,8 x 13 (3,0)	8	7005	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L11,5	12
3930	Biomimetic Pearl implant 2,0 x 15 (3,0)	8	7006	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L13	12
3931	Biomimetic Pearl implant 2,4 x 15 (3,0)	8	7007	CORAL/OCEAN/ICEBERG Drill Stop Ø3,6-4,3 L15	12
3932	Biomimetic Pearl implant 2,8 x 15 (3,0)	8	7959	Drill Stop Kit for implants up to Ø4.5	12
3956	Drill ø 1,3 x 10 - 15 mm	9			
3957	Drill ø 2,4 x 10 - 15 mm	9			
4165	Tissue punch	9			
4166	Rhein 83 abutment 2,5 x 0,8	8			
4167	Rhein 83 abutment 2,5 x 1,8	8			
4168	Rhein 83 abutment 2,5 x 2,8	8			
4199	Cover screw	8			

8

8

8

4209

4210

4211

4212

Rhein 83 tool for insertion and extraction caps

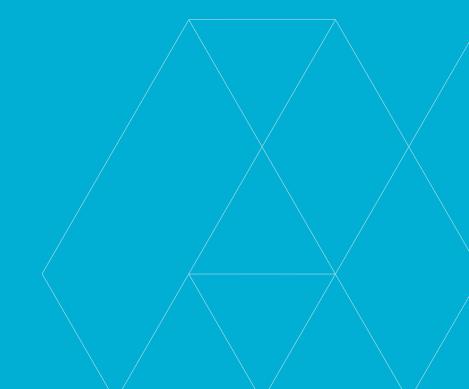
Retention replacement Smart Box (4 u.)

Processing cap Smart Box

Smart Box Housing

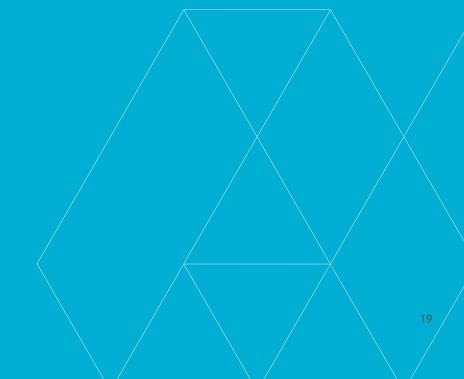
(Only for laboratories)













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