





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.
- Continuous progressive double-thread that facilitates implant insertion.
- ▶ 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.

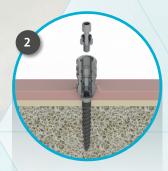


Intuitive, effective placement

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



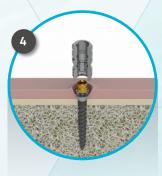
Placement of the implant alongside the transporter



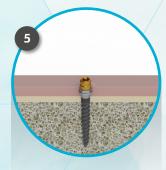
Removal of the screw once the transporter is positioned



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 | | Screwdriver ISO 1797 L (048) | | 0277 |
| | | 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 |
| | 0 | Implant driver S (2.5) | | 0278 |
| Drills | There is not | Tissue punch | | 4165 |
| | T cours | 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 | Ĭ | | 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

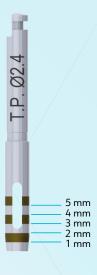
Maximum recommended speed for implant insertion: 20 rpm





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:

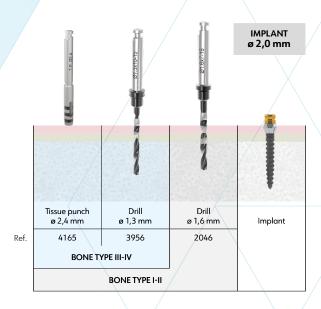
suitable for 2,8 mm attachment

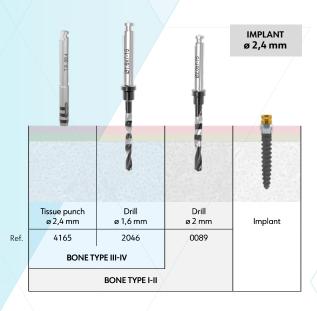
* Marks 1 and 2 mm will leave the implant exposed.

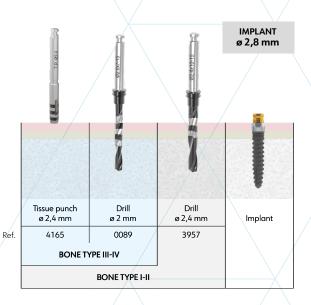
Avinent drilling protocol

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

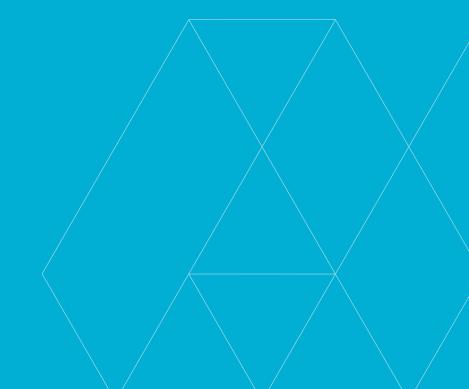
Retention replacement Smart Box (4 u.)

Processing cap Smart Box

Smart Box Housing

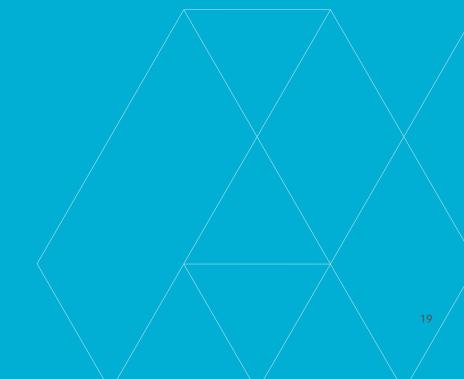
(Only for laboratories)













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