



Astra Tech Implant System®

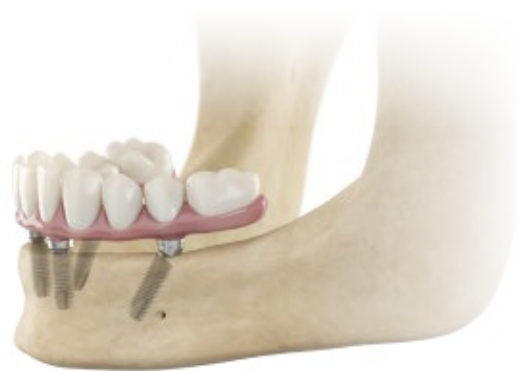
SmartFix® concept

Manual and product catalogue

Astra Tech Implant System® EV

The Astra Tech Implant System EV is designed for ease of use and versatility in providing treatment solutions for your implant patients.

The unique Astra Tech Implant System BioManagement Complex remains the foundation of this evolutionary system which has been proven to predictably provide long-term marginal bone maintenance and aesthetic results.



Animation showing:
SmartFix® concept for Astra Tech Implant System® EV
Step-by-step procedure

Astra Tech Implant System®

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This manual is designed for use by clinicians who have undergone appropriate education and training in surgical and prosthetic implant treatment. Staying current on the latest trends and treatment techniques in implant dentistry through continued education is the responsibility of the clinician.

This manual only addresses the additional information needed to work with the SmartFix concept. For all other instructions and/or a full description of implant placement and restorative procedures for the Astra Tech Implant System EV as well as all the instruments and components needed, please refer to the appropriate manual and catalogue.

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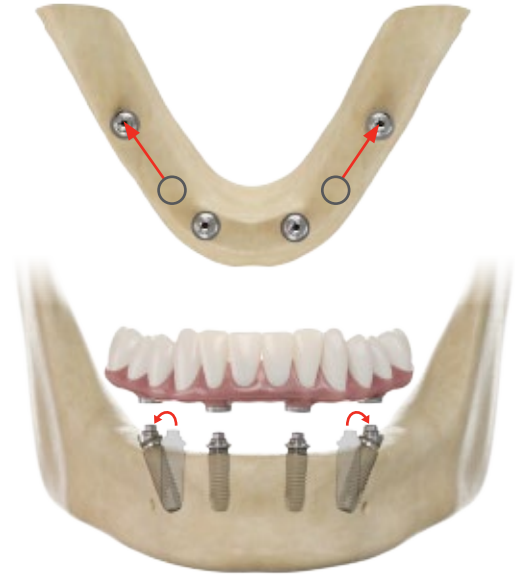
Product illustrations are not to scale.

Introduction – SmartFix® concept

With the SmartFix treatment concept patients can benefit from an immediate implant-supported restoration, as a provisional prosthesis is screwed onto the implants on the day of surgery. Final solutions for the SmartFix treatment concept include both fixed prostheses and removable solutions e.g. Atlantis patient-specific suprastructures.

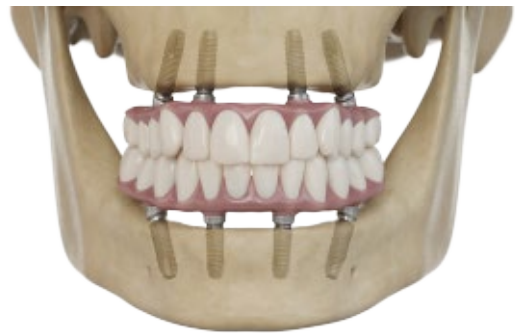
By placing the two posterior implants at an angle, longer implants can be used adjacent to areas of otherwise anatomically compromised bone volume such as close to the mental foramen or the maxillary antrum, increasing bone-to-implant contact and reducing the need for vertical bone augmentation. The tilted posterior implants reduce cantilevers and improve prosthetic support by increasing the anterior/posterior spread.

Biomechanical measurements show that tilted implants, when part of prosthetic support, do not have a negative effect on the load distribution. The tilting of implants has been used in clinical practice for over a decade and has shown good results.



The ease of using the SmartFix® concept

- Reduces treatment time for the patient
- Involves all team members in the treatment plan to ensure a quality outcome
- Uses a prosthetically driven protocol to improve the aesthetic result
- Allows the patient to leave the clinic, with implant retained teeth, on the day of surgery
- Provides one uniform interface to reduce restorative complexity
- Provides a simplified restorative concept to reduce chair time
- Increases patient acceptance by minimising costs



Pre-operative considerations

The SmartFix concept is an implant-prosthetic procedure for the immediate restoration of edentulous patients with screw-retained bridges or bar dentures on a minimum of four implants. The posterior implants placed at an angle are restored with 17° or 30° angled Multibase EV abutments to obtain a common path of insertion.

- Bone quality and quantity, primary implant stability, design of restoration and loading conditions should always be carefully examined and assessed by the clinician when deciding the appropriate time to load the implants in the individual case.
- All Multibase EV abutments need to be tightened to 25 Ncm. However during temporisation a lower torque of 15 Ncm, for the abutments is sufficient. After an appropriate healing time, the straight Multibase EV abutment and both parts of the angled Multibase EV abutment need to be tightened to 25 Ncm to secure a stable screw joint and pre-load for the final restoration. If in doubt, healing abutments or even a two stage surgical approach can be an alternative.
- For tilted posterior implants, plan for the emergence of the screw access hole to be located within the occlusal surfaces of the posterior teeth.
- Possible extraction sites should be debrided thoroughly. It is advisable to place implants between extraction sockets.
- It is recommended that a new denture, to be converted into a temporary fixed restoration on the day of surgery, is fabricated in advance.
- If possible, the posterior implants should be placed using maximum diameter and length within the limitations of available bone.
- Extensions should be limited to one tooth bilaterally for an immediate acrylic bridge with a maximum of 12 teeth.
- Fabrication of an immediate acrylic bridge can be made from a well-adapted existing denture in good condition.
- For best esthetics and function, the final bridge should have 12 teeth and a supporting metal framework.

Low cone and gingival height
- more free interocclusal space.

Cone taper 21° - allows for flexible bridge
insertion by non-parallel abutments.

One uniform prosthetic interface for
abutments, lowering the inventory needs.

The narrow abutment design reduces
the need for bone reaming, thereby
simplifying the abutment connection.

The angled abutment is designed with
two pieces, which provides for full wall
strength and full thread support for
bridge screw.

Multibase EV abutments are
delivered with a pre-mounted,
flexible plastic holder for easy
handling during installation.

Available as straight, 17° and 30°, indexed and
index-free, in different gingival heights to handle
challenging clinical situations.

Fitting 3.6, 4.2 and 4.8 OsseoSpeed EV and
OsseoSpeed Profile EV implant diameters.



Implant assortment for SmartFix® concept

OsseoSpeed EV implants are available in a versatile range of shapes, diameters and lengths for all indications, including situations with limited space and/or bone quantity.

Specific colors have been assigned to the different implant-abutment connection sizes, which are consistently used throughout the system and identified by symbols and markings.

Note: OsseoSpeed Profile EV implants and components are also marked with a “P”.

The following implants can be used when using the SmartFix concept with the Astra Tech Implant System EV:

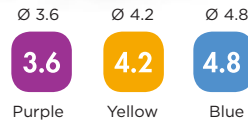
OsseoSpeed EV

- OsseoSpeed EV straight implants
Diameters: 3.6 S, 4.2 S and 4.8 S
Lengths: 6 mm-17 mm
- OsseoSpeed EV conical implants
Diameters: 4.2 C and 4.8 C
Lengths: 8 mm-17 mm

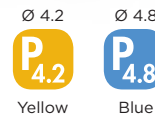
OsseoSpeed Profile EV

- OsseoSpeed Profile EV straight implants
Diameters: 4.2 PS and 4.8 PS
Lengths: 8 mm-17 mm
- OsseoSpeed Profile EV conical implants
Diameters: 4.2 PC and 4.8 PC
Lengths: 8 mm-17 mm

OsseoSpeed® EV



OsseoSpeed® Profile EV




Abutment assortment for SmartFix® concept

Multibase Abutment EV for OsseoSpeed EV

Version: straight, 17° and 30°

Diameter: 3.6 4.2 4.8

Height: 1.5, 2.5, 3.5

Indexing options:  Indexed abutments will seat in six available positions


 Index-free abutments will be seated in any rotational position

Multibase Abutment EV for OsseoSpeed Profile EV

Version: straight, 17° and 30°

Diameter: 4.2 4.8

Height: 1.5, 2.5, 3.5

Indexing option:  Index-free abutments will be seated in any rotational position

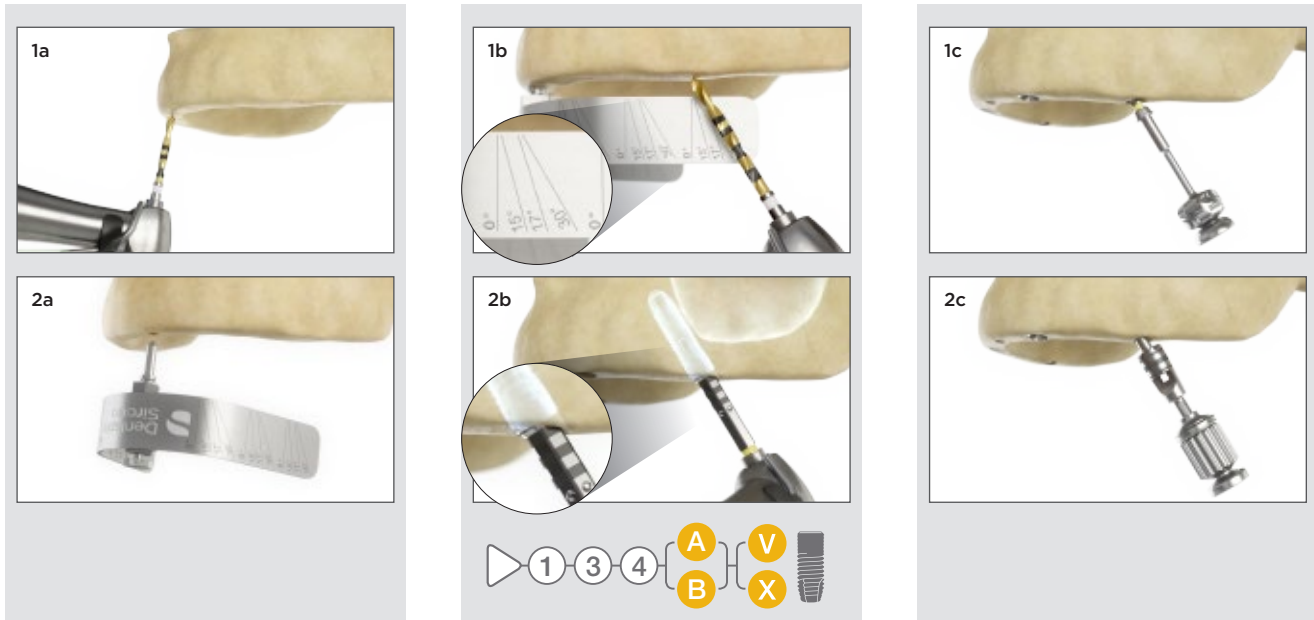


Note: Some restorative components are marked with a groove or laser marking to differentiate from other similar components of the Astra Tech Implant System EV.

Step-by-step procedure – Implant placement

Below is a step-by-step procedure for implant placement in the maxilla using OsseoSpeed EV 4.2 S implants.

Implant placement



SmartFix Guide (Optional)

- After raising a flap, prepare an osteotomy for the SmartFix Guide
- Drill in the midline using 1-Twist Drill EV 1.9 to a depth of 11 mm (1a).
- The guide can be pre-shaped outside the oral cavity.
- Place the guide in the osteotomy – the lines on the guide help aligning the axis of the implant (2a).

Implant placement

- Choose a starting point and an angle which results in an osteotomy that does not interfere with the maxillary sinus (1b).
- Prepare the implant site. Drill to appropriate depth and check for correct angulation, by using the installation guide.
- Follow the drilling protocol for OsseoSpeed EV 4.2 S implant.
- Install the implant so that the top of the implant is at bone level on the mesial side (2b). This could result in a subcrestal position at the distal.

Note: Regarding minimum torque requirement for immediate temporisation, see section Pre-operative considerations.

Note: See surgical manual for detailed surgical drilling protocol and options. All drilling should be performed at a maximum speed of 1500 rpm with profuse irrigation.

Bone Reamer EV (Optional)

- A reamer can be used when bone interferes with a correct abutment seating.
- Manually connect the appropriate Bone Reamer Guide EV to the implant using a hex driver (1c).
- Use the appropriate bone reamer together with a driver handle.
- Place the bone reamer over the guide and remove bone by rotating the reamer under irrigation (2c). You can also use the reamer in a contra angle at low speed under irrigation (max. 100 rpm).
- Remove the guide using a hex driver.

Note: The depth markings on the bone reamer are measured from the implant and up to the indication line.

The guide is provided with a depth stop.



Step-by-step procedure – Abutment connection

Below is a step-by-step procedure for abutment connection in maxilla using Multibase EV abutments.

Multibase Abutment EV 30° and 17°



Delivered assembled
in a sterile blister pack



Abutment connection – Multibase Abutment 30°



Abutment body

- Select the appropriate abutment angle and height.
- Connect the abutment body to the implant and rotate the abutment to the desired position (1a).
- The flexible holder can be bent to facilitate placement.
- Perform initial tightening of the abutment screw with a manual hex driver (2a).
- Unscrew the holder from the abutment body (3a).

Abutment body/head

- Use the restorative driver handle together with the hex driver and the Torque Wrench EV to tighten the abutment screw to the recommended torque (25 Ncm) (1b).
- Flip the holder over 180 degrees to the side that holds the abutment head (2b).
- Screw the abutment head into the abutment body with the holder (3b).



Abutment head

- Snap off the holder (1c).
- Perform initial tightening with the manual Multibase Driver EV to initially tighten the abutment head (2c).
- Use the restorative driver handle together with the Multibase Driver EV and the torque wrench to tighten the abutment head to the recommended torque (25 Ncm) (3c).

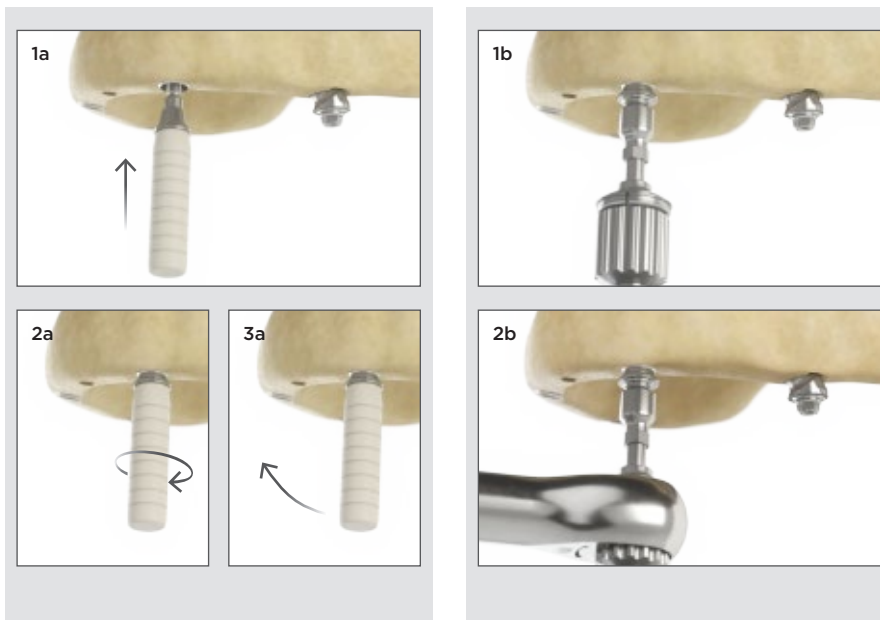


Multibase Abutment EV

Delivered assembled in a sterile blister pack



Abutment connection - Multibase Abutment straight



Abutment connection

- Pick up the selected abutment in the pre-mounted plastic holder (1a).
- Manually seat and secure the abutment using the holder (2a).
- Snap off the holder (3a).

Abutment connection

- Perform initial tightening with the restorative driver handle together with the multibase driver (1b).
- Use the restorative driver handle together with the multibase driver and torque wrench and tighten to the recommended torque (25 Ncm) (2b).

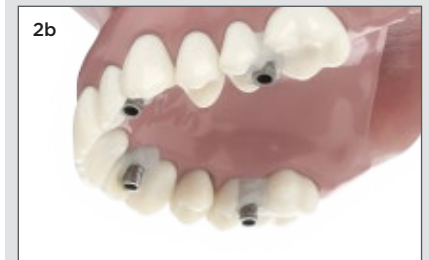


Step-by-step procedure – Immediate temporisation

The following procedure is a technique where a modified denture is used as the base for a temporary restoration.

Polymerisation Sleeve

Use sleeves to protect the wound from resin.



Multibase EV Temporary Cylinder

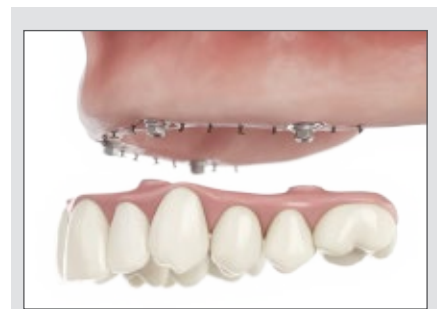
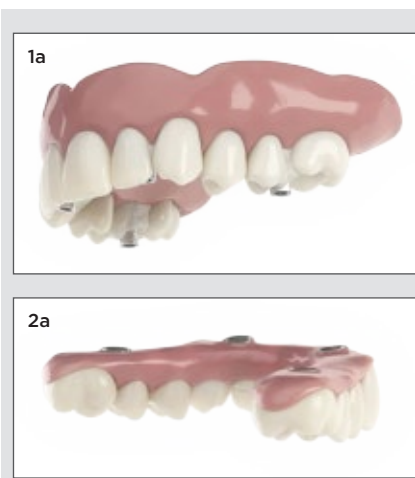
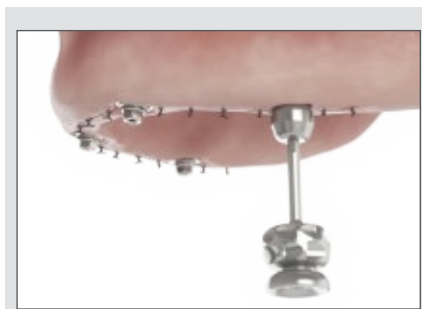
- After all abutments are seated, close the flap and suture.
- Manually seat and secure the temporary cylinders to the abutments with the Multibase EV Bridge Screws using the hex driver (1a).
- Apply the polymerisation sleeves to protect the wound from resin (2a). A rubber dam can also be used.

Adjust the denture

- Perforate the denture to allow it to seat onto the mucosa without interfering with the cylinders.
- One way to facilitate the perforation of the denture is to attach Multibase EV Heal Caps to the abutments.
- Take an elastomeric impression of the heal caps in the denture.
- Perforate the denture where the indentations appear.

Attach temporary cylinders

- Use autopolymerising resin to attach the temporary cylinders to the denture (1b).
- After resin has set, unscrew the bridge screws and remove the denture (2b).



Connect Multibase EV Heal Cap

- Manually seat and secure the heal caps to the abutments using light finger force (5-10 Ncm) with the hex driver.

Modify denture

- Cut off the excessive parts of the temporary cylinders (1a).
- Grind away the palatal plate of the denture and reduce the buccal base plate (2a).
- Fill in any voids with resin and adjust the soft tissue side of the denture to allow access for good oral hygiene.

Temporary bridge installation

- Remove the heal caps from the abutments.
- Connect the temporary bridge with the Multibase EV Bridge Screws and check the fit.
- Use the restorative driver handle together with the hex driver and the torque wrench to tighten to the recommended torque (15 Ncm).
- Check function and contacts for balanced occlusion and articulation.



Step-by-step procedure – Prosthetic and laboratory procedures

Below is a step-by-step procedure using an open tray procedure.

Note: Closed tray option also available.

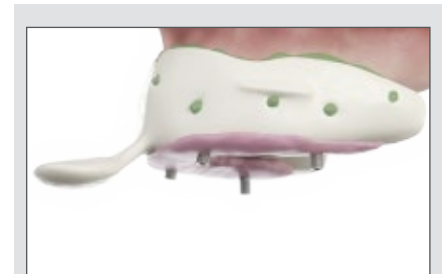
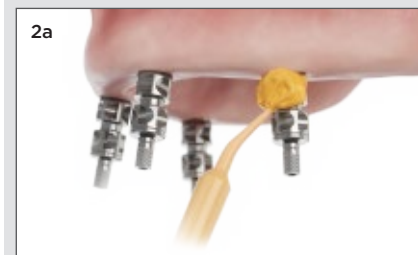


Multibase EV Pick-up
for open tray option



Multibase EV Transfer
for closed tray option

Clinical procedure – open tray



Multibase EV Pick-up

- Remove the temporary bridge.
- Connect the pick-ups using the Hex Driver EV.
- Secure the pick-ups using manual tightening torque (5–10 Ncm).

Applying impression material

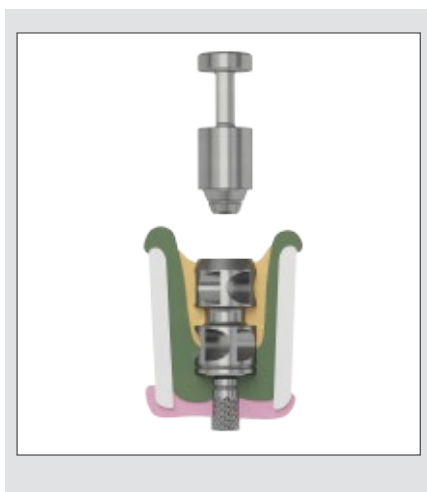
- Cover an open tray with wax (1a).
- Apply an elastomeric impression material around the pick-ups separately (2a).

Impression

- Place the tray, filled with the impression material, and take the impression.
- Once the impression material has set, unscrew the pins and remove the impression.
- Check the impression for correct and stable retention of the pick-ups.
- Reinstall the temporary bridge.

Below a laboratory procedure for fabrication of Atlantis suprastructures is described. You can also use conventional wax-up technique using the Multibase EV Burnout Cylinder and casting process.

Laboratory procedure – open tray



Multibase EV Pick-up/ Multibase EV Replica

- Connect the replicas carefully to the pick-ups and tighten.
- Secure the pick-ups using manual tightening torque (5-10 Ncm).

Note: Multibase EV Replica is for single use.

Master model / Tooth set-up

- Prepare the impression for duplication with a removable soft tissue mask by applying silicone around the replica sites.
- Pour high quality stone and fabricate the master model (1a).
- Prepare a tooth set-up in wax (2a).
- Consult the separate Atlantis suprastructure Design Guide for detailed handling procedures in the laboratory.

Order – Atlantis suprastructures

- Enter the order via the Atlantis WebOrder. Consult the Atlantis suprastructures – User guide for the ordering process.
- After review and final approval of the design in Atlantis Viewer, the suprastructure is fabricated.

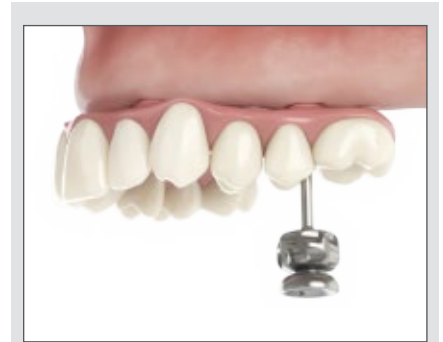


Multibase EV
Bridge Screw

Multibase EV
Lab Bridge Screw

Laboratory procedure

Clinical procedure



Final restoration – Atlantis suprastructures

- The Atlantis suprastructure is shipped to the dental laboratory.

Note: The Multibase EV Lab Bridge Screw is recommended to be used during the laboratory procedure with Atlantis suprastructures for the Astra Tech Implant System EV.

Final restoration – Atlantis suprastructures

- Fabricate the final prosthesis.

Installation of the final restoration

- Remove the temporary bridge.
- Connect the final restoration with the Multibase EV Bridge Screws and check the fit.
- Use the restorative driver handle together with the hex driver and the torque wrench to tighten to the recommended torque (15 Ncm).
- Cover the screw head before the screw channel is filled with a suitable material e.g. composite resin.
- Check function and contacts for balanced occlusion and articulation.

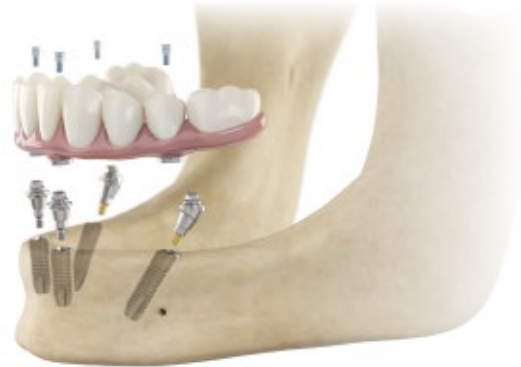
Note: The lab bridge screw should be replaced with a clinical bridge screw for placement of the final restoration in the clinical situation.



OsseoSpeed® Profile EV

Placement of the uniquely designed OsseoSpeed Profile EV at an angle can help to eliminate/reduce the need for bone removal at installation.

When placing the uniquely designed OsseoSpeed Profile EV implant distally at an angle, the implant can often be aligned flush with the marginal bone, thereby avoiding the occurrence of a partially-submerged implant margin. As a consequence the need for bone reamers is reduced.



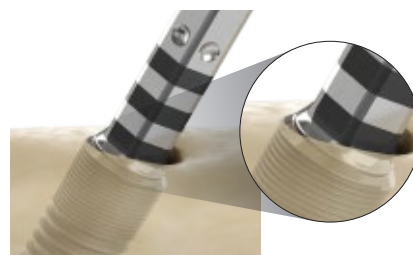
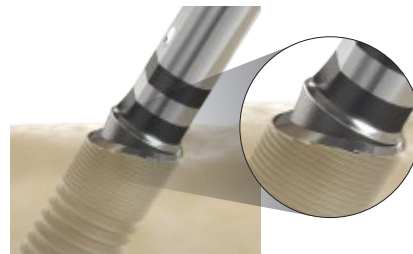
OsseoSpeed Profile EV 4.2 P
implant placed in a 30° angulation



OsseoSpeed EV 4.2 implant
placed in a 30° angulation

Implant placement

- OsseoSpeed Profile EV implants;
 - Consider carefully where you prefer to position the most apical point of the slope of the implant. This is achieved by making sure that the flat side of the Implant Driver Profile EV is facing in the direction in which you would want the most apical point of the slope to be positioned. This will often be in a mesial position so that the slope of the implant is in alignment with the ridge of the bone.
 - Note:** Only index-free Multibase EV abutments fit OsseoSpeed Profile EV.
- OsseoSpeed EV implants;
 - Consider carefully how you prefer to direct the angulated Multibase EV abutment. For an indexed abutment the preferred direction is achieved by positioning one of the six flat sides of the implant driver in line with the desired direction. For a non-indexed angulated Multibase EV abutment the positioning of the implant driver is without consequence.



Simplant® computer guided implant treatment

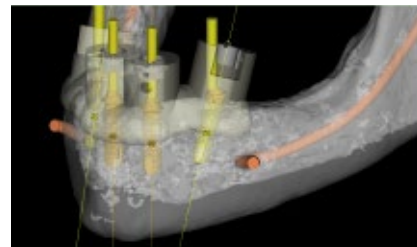
Simplant software and surgical guides can be used for the SmartFix concept to ensure accurate planning for optimized implant position and placement.

Simplant facilitates crown-down planning by visualising the surgical and prosthetic aspects of the case. By virtually planning your components, a custom-made Simplant SAFE Guide can be fabricated to assist in a guided surgery procedure.

For the SmartFix concept, normally plan for a distally tilted placement of the posterior implant on each side. In most cases up to 30° inclination is appropriate.

The available implant diameters for Multibase EV abutments and guided surgery are 3.6 / 4.2 / 4.8, and the maximum implant length for use with a Simplant SAFE Guide is 15 mm.

Multibase EV abutments (straight, 17° and 30°) can be selected in the Simplant Library.



Atlantis® patient-specific suprastructures

Atlantis suprastructures are produced using the latest developments in world-class production technologies and are supported by computer-based industrial and medical-device expertise.

Screw-retained solutions

Atlantis Bridge and Atlantis Hybrid are full-anatomical designed frameworks that are completed using ceramic, composite layering techniques or denture resin.

Both the Bridge and Hybrid have the optional feature of angulated screw access. This feature allows the prosthetic screw access channel to be angled up to 30 degrees off the implant/abutment axis, for optimal aesthetics and function.

The screw-retained solutions are produced by a metal 3D printing technique, additive manufacturing*, which provides unique possibilities for advanced geometries. The result is an ultimate design of the suprastructures in titanium and cobalt-chrome.



Friction- and attachment-retained solutions

Atlantis 2in1 in titanium provides both a primary suprastructure, fixed to implants, and a secondary suprastructure that attaches to the primary using friction and additional retention elements.

Atlantis Bar in titanium and cobalt-chrome is indicated for removable dentures, using a combination of various attachment options.

*Additive manufacturing is available in many markets, please contact the local Dentsply Sirona office for more information about availability.



Bone Reamer EV

A bone reamer is an option when the bone interferes with a correct abutment seating. The bone reamers, together with the bone reamer guides, are used for removing excess crestal bone that hinders correct seating of an abutment.

- The bone reamer guides are colour coded and used to guide the bone reamers into correct position and to provide a depth stop.
- The bone reamers and bone reamer guides are available from 3.0 to 5.4 in the OsseoSpeed EV assortment and cover the use for most abutment diameters and designs.
- The Small Tray EV Overlay Bone Reamers provide guidance in the selection of reamers per implant size.
 - Straight line - first option.
 - Dotted line - alternative option.
 - Spare positions are also available e.g. for round burs etc. according to the user's preference.

Note: The guides are placed in the tray with the threaded portion facing up.



Step-by-step procedure

- Manually connect the appropriate Bone Reamer Guide EV to the implant using a hex driver.
- Use the appropriate Bone Reamer EV together with the Restorative Driver Handle.
- Place the bone reamer over the guide and remove bone by manually rotating the reamer under irrigation. You can also use the reamer in a contra angle at low speed under irrigation (max. 100 rpm).
- Remove the guide using hex driver.

Note: The reamers can be used approximately ten times but shall be replaced as soon as their cutting capability diminishes.



SmartFix® Guide

The SmartFix Guide is used in edentulous jaws for visual orientation during drilling procedures when a mesio-distally tilted implant installation is desired. The guide can also be used as an orientation during drilling from a bucco-lingual aspect.

- The SmartFix Guide consists of three separate parts, a slightly conical pin with a ball connection, a fastening screw and a guide part with extensions.
- The markings are for 0°, 15°, 17° and 30°.



Step-by-step procedure

- Assemble the guide and after 1-2 turns of the screw the 3 parts are kept together and secured by manually tightening the screw.
- After raising a flap, prepare an osteotomy for the SmartFix Guide. Drill in the midline using a Twist Drill EV no. 1 (Ø 1.9 mm).
- The guide can be pre-shaped outside the oral cavity.
- Place the guide in the osteotomy.
- During the drilling procedure, use the markings on the guide to align the axis of the implant.
- Make sure all parts are assembled prior to use.

Note: SmartFix Guide should be disassembled in three parts for cleaning. Let the parts dry before sterilisation.



Step-by-step procedure - Verification jig

A verification jig is an optional device used to confirm the accuracy of the working model. In the event that there is an inaccuracy, the jig is adjusted and used to take an impression and make a new model. In the absence of a verification jig, fabrication of the prosthesis could be compromised, adding time and cost to the final outcome.



The following is one method to make a verification jig - laboratory procedure



Creating a foundation

- Multibase Pick-ups are secured to the replicas in the master cast.
- Dental floss is webbed around the pick-ups. The web provides a foundation for auto-polymerising resin or flowable composite to secure the relationship of the pick-ups.
- Apply a loose mixture of powder and liquid to the created web in small increments.

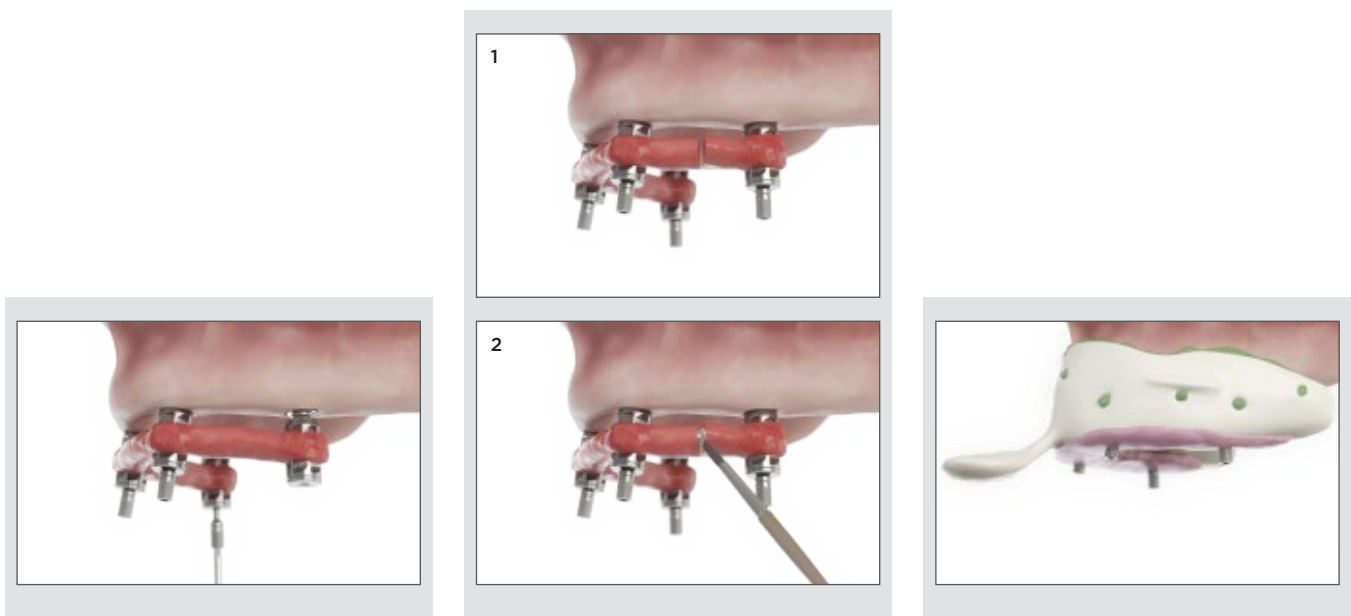
Final restoration installation

- Once the resin has set, the verification jig has to be made stress-free before trying it in the mouth.
- To relax the tensions built up in the verification jig during setting of the resin, the jig needs to be sectioned (1).
- The sections are reconnected with resin. This will prevent distortions when the jig is removed from the model (2).

Stress-free jig

- The verification jig is now ready for try-in in the mouth.

The following is one method to make a verification jig - clinical procedure



Insertion/inspection

- When placing the verification jig in the mouth, start with a single bridge screw in one of the distal abutments.
- If a misfit is detected, the verification jig has to be sectioned to correct the poor fit and to allow for the components to be fully seated.
- The objective is to achieve a passive fit so that the jig is seated completely on all abutments.

Sectioning/resin application

- Section the verification jig (1).
- Reconnect the sectioned jig by applying auto-polymerising resin intra-orally (2).

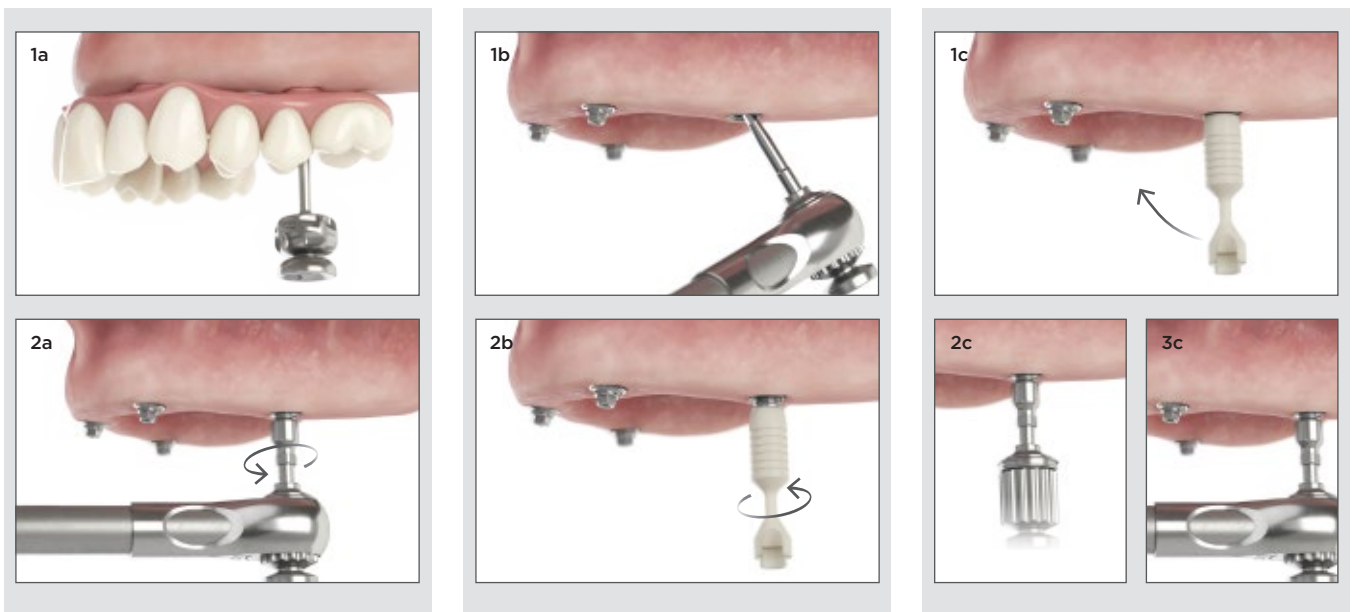
New impression

- Pick up the jig in a new impression and pour a new master cast.
- The new model is used to fabricate the final prosthesis and to ensure its accuracy.

Step-by-step procedure - Retightening of Multibase Abutment EV, 17°/30°

Below is a description of the procedure to be used in situations where a torque lower than 25 Ncm has been used for the abutment screw and abutment head during temporisation.

Note: The straight Multibase EV abutment should also be tightened to 25 Ncm when a lower torque during temporization has been used.



Remove the abutment head

- Remove the temporary bridge (1a).
- Use the restorative driver handle together with the Multibase Driver EV, if needed use also the torque wrench to remove the abutment head (2a).

Abutment body/head

- Use the restorative driver handle together with the hex driver and the Torque Wrench EV to tighten the abutment screw to the recommended torque (25 Ncm) (1b).
- When replacing the head use a new Multibase EV Abutment Head with holder (spare part).
- Screw the abutment head into the abutment body with the holder (2b).

Abutment head

- Snap off the holder (1c).
- Perform initial tightening with the manual Multibase Driver EV to initially tighten the abutment head (2c).
- Use the restorative driver handle together with the Multibase Driver EV and the torque wrench to tighten the abutment head to the recommended torque (25 Ncm) (3c).
- Reconnect the temporary bridge with the Multibase EV Bridge Screws and check the fit, adjust if needed.

Note: When the temporisation is done, follow the procedure for fabrication of a final bridge.

Product catalogue

SmartFix[®] concept

Components specifically designed for use with the SmartFix concept for Astra Tech Implant System EV implants are presented in this manual/product catalog. If you need drills and other instruments, please refer to the product catalogs for Astra Tech Implant System EV.

For more information visit www.dentsplyimplants.com.

For information about Atlantis patient-specific suprastructures, please contact the local Dentsply Sirona Implants office for more information about availability.




Screw-retained restorations

Multibase Abutment EV, straight and angled



Titanium with a PEEK plastic holder, sterile

- Supporting multiple unit, screw-retained restorations only
- Top cone (21°) enables bridge insertion on non-parallel abutments up to 42°
- Same prosthetic interface and components for all abutments
- Delivered with a plastic holder pre-mounted to the abutment for easy installation

Multibase Abutment EV, straight

- One-piece abutment
-  Index-free abutments can be seated in any rotational position
- Holder straight has 8 identification markings
- Multibase Driver EV required for installation and removal

Multibase Abutment EV, 17°/30°

- Consists of three parts; abutment body and a separate head part, delivered with a pre-assembled abutment screw
-  Indexed abutments can be seated in six available positions. Not compatible with OsseoSpeed Profile EV
-  Index-free abutments can be seated in any rotational position
- The abutment head part is pre-mounted on the holder
- Holder 17° has 4 identification markings
- Holder 30° has 6 identification markings
- Hex Driver EV required for installing the abutment screw and Multibase Driver EV for tightening the abutment head to the abutment body



3.6 Multibase Abutment EV



A - height mm	1.5	2.5	3.5
Order no.	26159	26160	26161

3.6 Multibase Abutment EV 17°



A - height mm	1.5	2.5	1.5	2.5
B - height mm	3	4	3	4
Order no.	26162	26163	26166	26167

3.6 Multibase Abutment EV 30°



A - height mm	1.5	2.5	1.5	2.5
B - height mm	4	5	4	5
Order no.	26164	26165	26168	26169

4.2 Multibase Abutment EV



A - height mm	1.5	2.5	3.5
Order no.	26170*	26171*	26172*

4.2 Multibase Abutment EV 17°



A - height mm	1.5	2.5	1.5	2.5
B - height mm	3	4	3	4
Order no.	26173	26174	26177*	26178*

4.2 Multibase Abutment EV 30°



A - height mm	1.5	2.5	1.5	2.5
B - height mm	4	5	4	5
Order no.	26175	26176	26179*	26180*

* Compatible with OsseoSpeed Profile EV

4.8 Multibase Abutment EV



A - height mm	1.5	2.5	3.5
Order no.	26181*	26182*	26183*

4.8 Multibase Abutment EV 17°

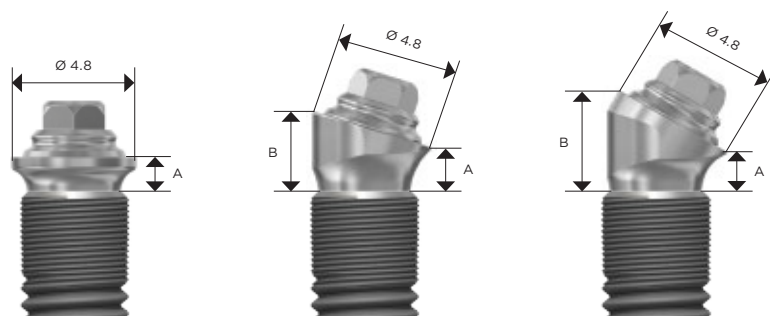
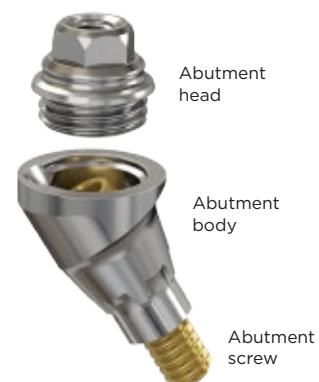


A - height mm	1.5	2.5	1.5	2.5
B - height mm	3	4	3	4
Order no.	26184	26185	26188*	26189*

4.8 Multibase Abutment EV 30°



A - height mm	1.5	2.5	1.5	2.5
B - height mm	4	5	4	5
Order no.	26186	26187	26190*	26191*



Restorative instrument

Multibase Driver EV



Total length mm	19
Order no.	26204

Multibase Driver EV

Stainless steel, non-sterile

- Used for installation and removal of the Multibase EV Abutment
- The Surgical Driver Handle could be useful when removing the abutment to support the torque transferring

* Compatible with OsseoSpeed Profile EV

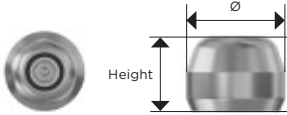
Restorative products

Some restorative components are marked with a groove or laser marking to differentiate from other similar components of the Astra Tech Implant System EV

Multibase EV Heal Cap

Titanium, sterile, one-piece

- Marked with diameter and a laser ring for identification



Multibase EV Heal Cap

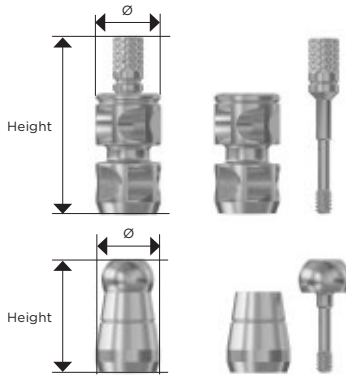


Ø mm	5.4
Vert. height mm	4
Order no.	26193

Multibase EV Pick-up and Transfer

Stainless steel, non-sterile

- Pick-up two-piece, with a pronounced groove for splinting possibility
- Transfer two-piece
- Marked with a groove for identification



Multibase EV

Pick-up

Transfer



Ø mm	5.5	5.5
Vert. height mm	15	9.5
Order no.	26195	26194

Polymerisation Sleeve

Silicone, non-sterile

- Single-use
- The polymerisation sleeve protects the soft tissue from acrylic resin

Polymerisation Sleeve



Order no.	31021405 / 31021890*
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Multibase EV Replica

Stainless steel, non-sterile, one-piece

- Marked with a groove for identification

Multibase EV Temporary Cylinder

Titanium, non-sterile

- Marked with a groove for identification

Multibase EV Burnout Cylinder

PMMA burnout plastic, non-sterile

- Marked with a groove for identification

Multibase EV

Replica

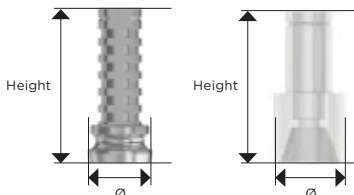
Temporary Cylinder

Burnout Cylinder



Ø mm	-	5.0	4.8
Vertical height mm	-	12	10
Order no.	26201	26202	26203

Note: Bridge screws need to be ordered separately.



* For US/CA markets

Multibase EV Bridge Screw



Multibase EV Lab Bridge Screw



Multibase EV Bridge Screw

Titanium, non-sterile

- Marked with a groove for identification
- M1.4, anodized (light blue)

Multibase EV Lab Bridge Screw

Titanium, non-sterile

- Marked with a groove for identification

*QTY 4

	M1.4	M1.4
Screw head height mm	1.65	1.65
Screw head Ø mm	2.1	2.1
Order no.	26196	26200*

Multibase EV Lab Abutment Pin



Multibase EV Lab Abutment Pin

Stainless steel, non-sterile

- Marked with a groove for identification

Length mm	14	18	22
Order no.	26197	26198	26199

Spare parts

Multibase EV Abutment Head with holder



Order no.	26192
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Multibase EV Abutment Head with holder

Titanium with a PEEK plastic holder, sterile

- The head part is pre-mounted on the holder
- Multibase Abutment EV 17° and 30° use the same spare part

Abutment Screw EV



3.6



4.2



4.8

	M1.6	M1.8	M2.0
Order no.	25204	25205	25206

Abutment Screw EV

Titanium, non-sterile

Surgical instruments

SmartFix® Guide

Stainless steel, non-sterile

- Three-piece
- Used for guiding the drilling with correct angulation

SmartFix® Guide



Order no.	26205
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Bone Reamer EV

Stainless steel, non-sterile

- The bone reamers and bone reamer guides are available from 3.0 to 5.4 in the OsseoSpeed EV assortment and cover the use for most abutment diameters and designs.
- Laser-etched depth indication lines
- Marked with diameter
- Used for removing excess crestal bone when needed for proper abutment seating

Bone Reamer EV

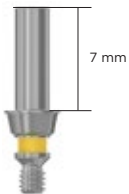


Ø mm	4.0	4.6	5.2	5.8	6.4	7.0
Total length mm	26	26	26	26	26	26
Order no.	26206	26207	26208	26209	26210	26211

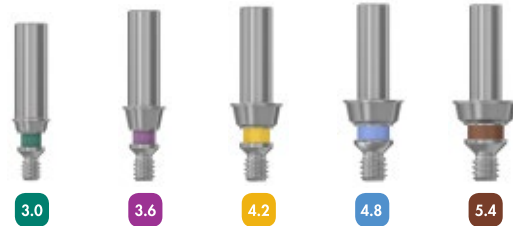
Bone Reamer Guide EV

Stainless steel, non-sterile

- Used to guide the Bone Reamer EV



Bone Reamer Guide EV



Order no.	26212	26213	26214	26215	26216
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Small Tray EV and Overlay Bone Reamer

PPSU plastic, silicone holders, non-sterile



Small Tray EV including overlay Bone Reamers

Measurements mm	Length 160	Width 95	Height 46
Order no.	26218*		


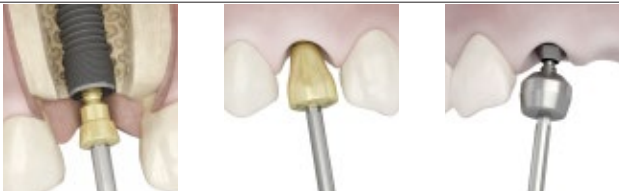
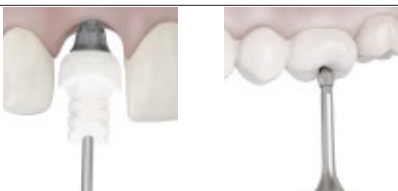
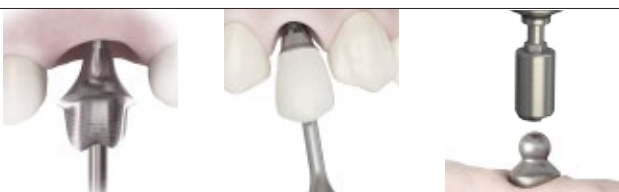
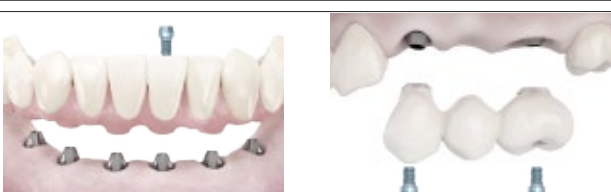


Overlay Bone Reamer


Order no.	26217*
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*Instruments not included.

Torque guide – Recommended installation and tightening torque

Type of product installation		Torque - Ncm
<ul style="list-style-type: none"> Implant installations 		Maximum 45 Ncm
<ul style="list-style-type: none"> Cover screws Healing components 		5-10 Ncm Manual/ light finger force
<ul style="list-style-type: none"> Temporary abutments Temporary restorations on all levels 		15 Ncm
<ul style="list-style-type: none"> Final abutments Single tooth restorations on implant level 		25 Ncm
<ul style="list-style-type: none"> Final restorations on abutment level 		15 Ncm

Explanation of the symbols on labels and instructions for use

 Date of manufacture	Date of manufacture.	 Single use	Do not re-use, Single use only.	 Consult instructions for use ifu.dentsplysirona.com	Consult instructions for use.*
 Legal manufacturer.	Legal manufacturer.	 Do not re-sterilize	Do not re-sterilize.	 LOT/BATCH number.	
 Use by	Expired date.	 GOST is the valid quality certification system in Russian Federation.		 Article number.	
 Sterilized using irradiation.	Sterilized using irradiation.	 Astra Tech Implant System® products carry the CE mark and fulfill the requirements of the Medical Device Directive.		 Contains article number (GTIN number), lot number and quantity.	
 Caution: Federal (USA) law restricts this product to sale by or on a order of a dentist.		 Do not use if package is damaged	Do not use if package is damaged.	* To read PDF files you will need Adobe Reader. Download free of charge at get.adobe.com/reader .	

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About Dentsply Sirona Implants

Dentsply Sirona Implants offers comprehensive solutions for all phases of implant therapy, including Ankylos®, Astra Tech Implant System® and Xive® implant lines, digital technologies, such as Atlantis® patient-specific solutions and Simplant® guided surgery, Symbios® regenerative solutions, and professional and business development programs, such as STEPPS™. Dentsply Sirona Implants creates value for dental professionals and allows for predictable and lasting implant treatment outcomes, resulting in enhanced quality of life for patients.

About Dentsply Sirona

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with a 130-year history of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world class brands. As The Dental Solutions Company™, Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better, safer and faster dentistry. Dentsply Sirona's global headquarters is located in York, Pennsylvania, and the international headquarters is based in Salzburg, Austria. The company's shares are listed in the United States on NASDAQ under the symbol XRAY.

Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

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