

Astra Tech Implant System®

Manual and product catalog

## Repair procedures

Removal and retrieval of screw fragment,  
abutment and implant



# Astra Tech Implant System®

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

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## Introduction

For different reasons abutments, implants or screws occasionally need to be removed and/or replaced. The Astra Tech Implant System has a wide selection of different abutments to meet specific clinical situations. Provided the abutment screw is undamaged, cement-retained abutments can be easily removed, in most cases, using a hex screwdriver.

This manual covers products in the OsseoSpeed TX and OsseoSpeed EV assortment.



## General information

This manual contains detailed instructions and illustrations on how to remove, retrieve and recondition components.

Consider the following:

- Be patient, allow ample time and schedule the visit carefully.
- Magnifying glasses should be considered.
- Carefully consider the possible reasons for the situation which has occurred.

The manual is divided in two different workflows: Remove/retrieve on implant-level and Remove/retrieve on abutment-level. Each workflow process describes step-by-step procedures. The following procedures are structured in the order from minor to major impact on components and surrounding tissue.



**Remove/retrieve on  
implant-level**

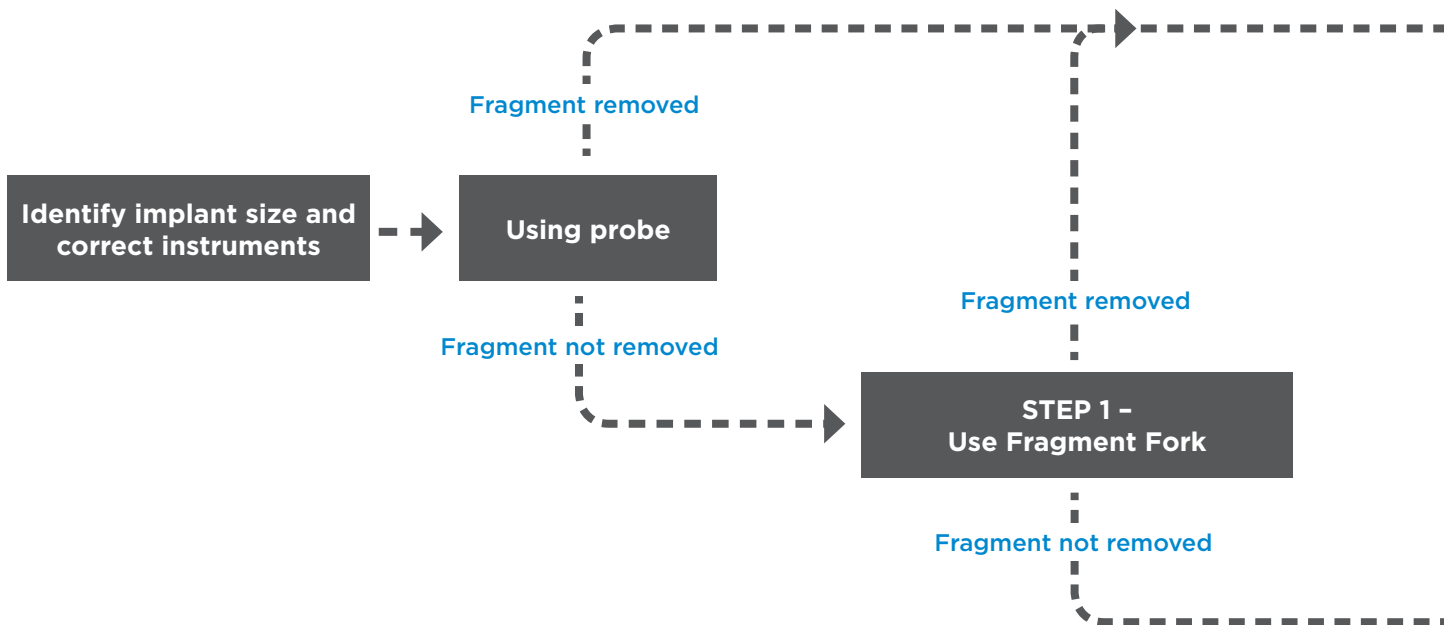


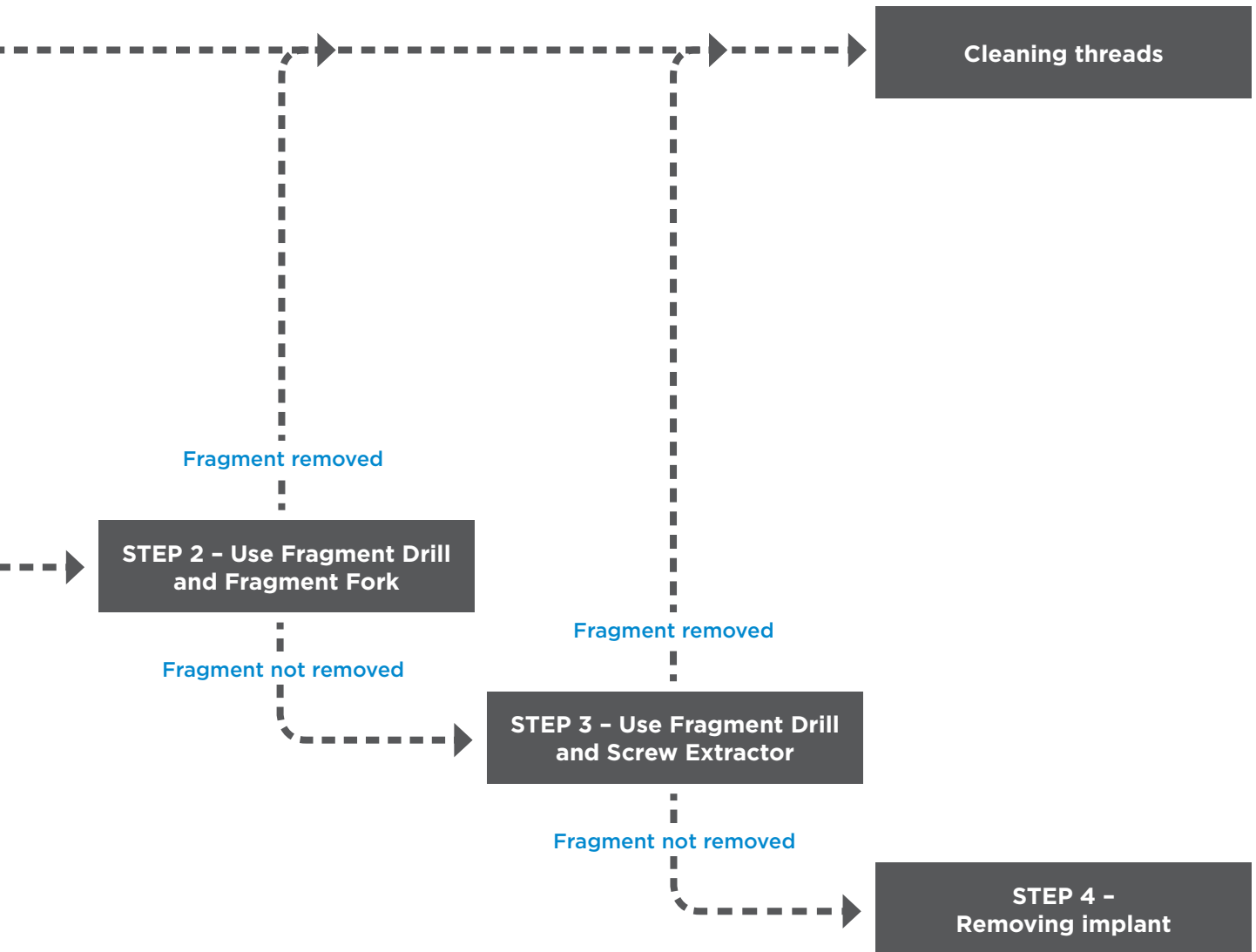
**Remove/retrieve on  
abutment-level**



**Note:** The products and instruments for repair procedures are delivered non-sterile. Before use, the products/instruments must be cleaned and sterilized. Most of the products are single-use; for detailed information about which products are single-use only and those which are not, refer to the product catalog section.

## Workflow - Abutment screw fracture in an implant





# Abutment screw fracture in an implant

Screw fractures may occur in implants when unfavorable stress or forces are applied. The remaining screw fragments may be retrieved with Fragment Fork instruments. The Fragment Fork is designed to be used counter-clockwise and can often be used without damaging the implant threads.

The following steps describe the step-by-step procedures for retrieval of an abutment screw fragment in an OsseoSpeed EV 3.6 implant.

Identify the size of the implant and use the instruments accordingly (see the compatibility table on page 29).

Start by using a sharp probe to evaluate the mobility of the fragment and try to remove the screw fragment from the implant by rotating it in a counter-clockwise direction.



## STEP 1



### Connect and adjust

- Connect, adjust and lock the Guiding Cylinder Handle firmly into the ball joint of the Guiding Cylinder EV.

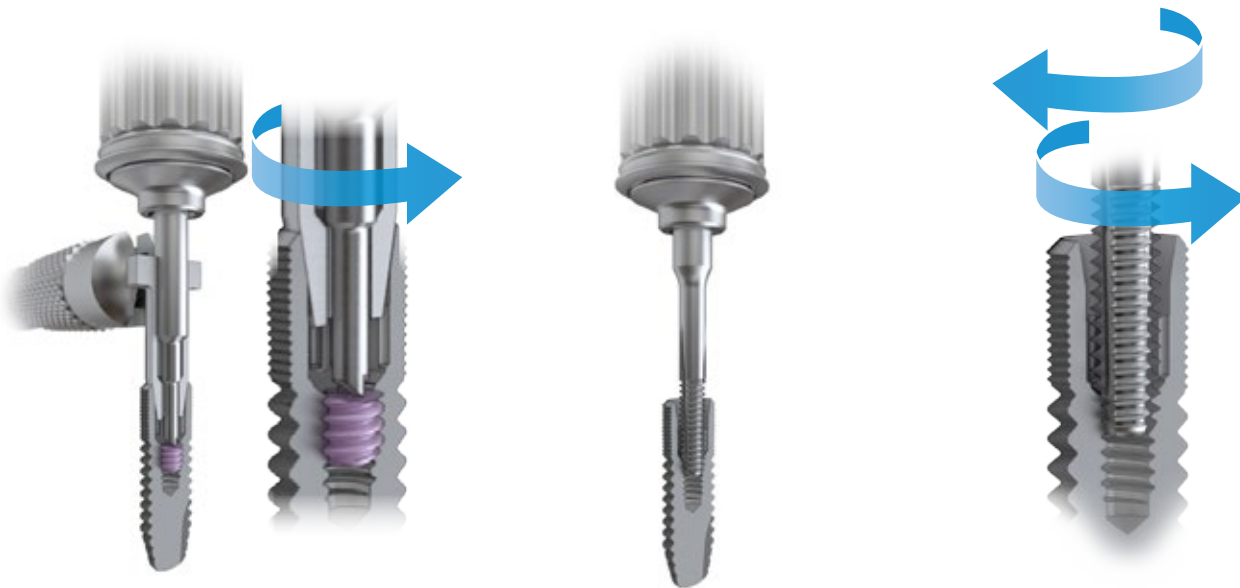
### Insert

- Insert the guiding cylinder into the implant and hold it firmly.
- Ensure that the cylinder is aligned with the vertical axis of the implant throughout the whole procedure.

### Attach the Fragment Fork

- Attach the Fragment Fork into the Restorative Driver Handle EV.





### Using Fragment Fork

- Manually rotate the Fragment Fork in a counter-clockwise direction while pressing towards the screw fragment through the Guiding Cylinder.
- When the fragment is loose, continue unscrewing the screw fragment.
- Remove the guide and retrieve the fragment with a pair of forceps or similar instrument.

**Note:** If the fragment cannot be removed, go to Step 2 using the Fragment Drill.

### Attach Thread Cleaner

- Attach the appropriate Thread Cleaner into the Restorative Driver Handle EV.
- Insert the Thread Cleaner carefully into the implant by hand and make sure that it engages properly into the threads.

### Thread cleaning

- Work the whole length of the thread intermittently with the Thread Cleaner, half of a turn at a time, and reverse in between to clean the threads and remove possible fragments.

# Abutment screw fracture in an implant

Drill with the Fragment Drill to make an indentation in the screw fragment as a starting point for the Fragment Fork.



## STEP 2



### Connect and adjust

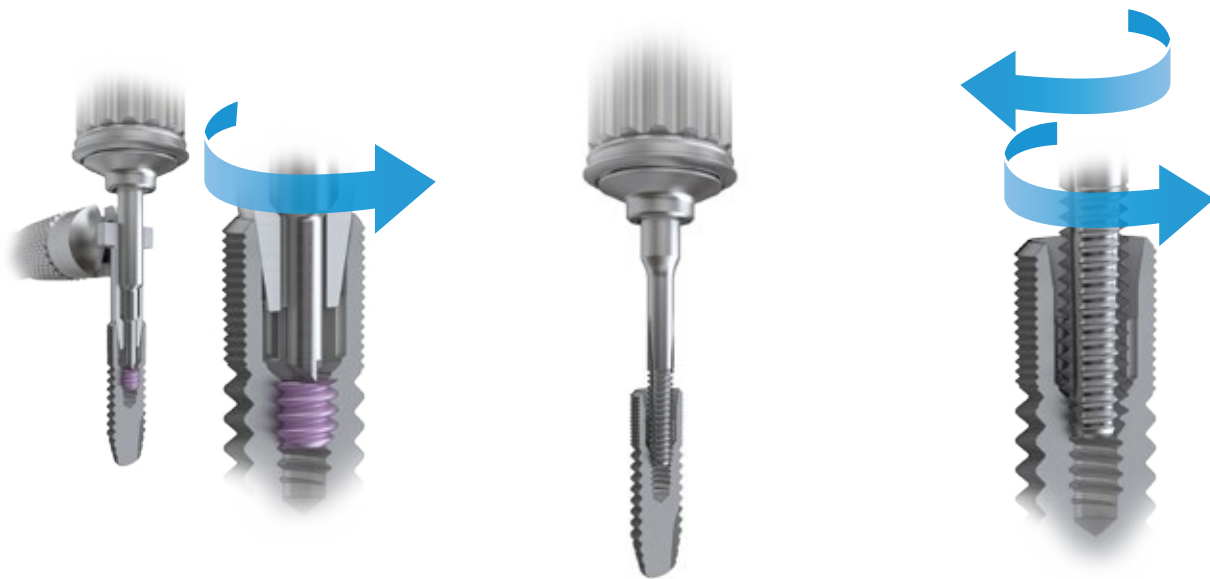
- Connect, adjust and lock the Guiding Cylinder Handle firmly into the ball joint of the Guiding Cylinder EV.

### Insert

- Insert the Guiding Cylinder into the implant and hold it firmly.
- Ensure that the cylinder is aligned with the vertical axis of the implant throughout the whole procedure.

### Attach Fragment Drill

- Connect the Fragment Drill into the contra angle (contra angle 20:1).
- **Drill counter-clockwise** with the Fragment Drill through the Guiding Cylinder with the **drilling equipment set at 1500 rpm**.
- Ensure that the indentation is centered in the screw fragment.
- Work intermittently with the drill and in between clean out possible fragments.
- Drill gently until a small cavity/indentation is created in the screw fragment.



### Fragment Fork

- Attach the Fragment Fork into the Restorative Driver Handle EV.
- Manually rotate the Fragment Fork counter-clockwise while pressing towards the screw fragment through the Guiding Cylinder.
- When the fragment is loose, continue unscrewing the screw fragment.
- Remove the guide and retrieve the fragment with a pair of forceps or similar instrument.

**Note:** If the fragment cannot be removed, go to Step 3, using the Screw Extractor.

### Attach Thread Cleaner

- Attach the appropriate Thread Cleaner into the Restorative Driver Handle EV.
- Insert the Thread Cleaner carefully into the implant by hand and make sure that it engages properly in the threads.

### Thread cleaning

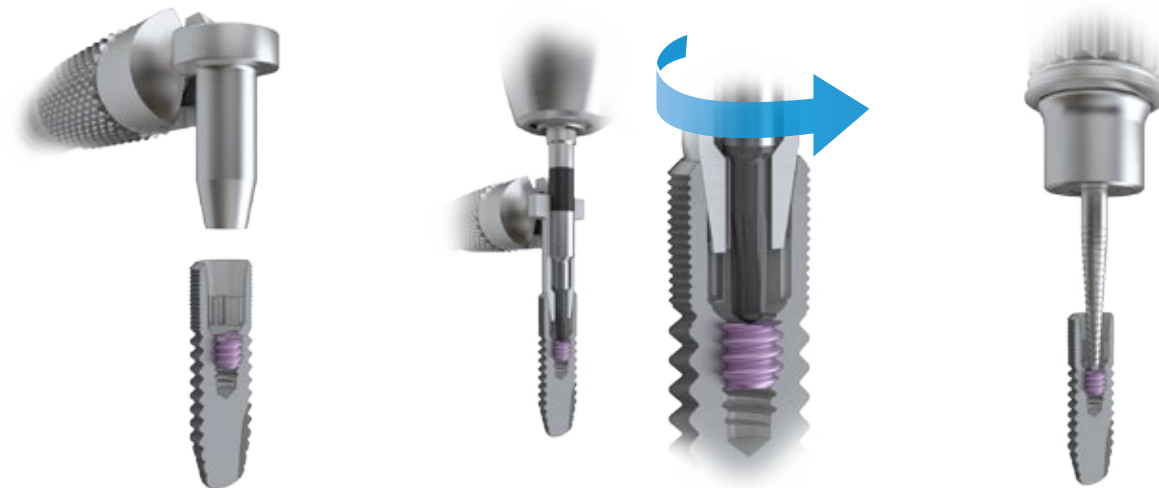
- Work the whole length of the thread intermittently with the Thread Cleaner half of a turn at a time and reverse in between to clean the threads and remove possible fragments.

# Abutment screw fracture in an implant

Drill with the Fragment Drill to make an indentation in the screw fragment for the Screw Extractor.



## STEP 3



### Connect, adjust and insert

- Connect, adjust and lock the Guiding Cylinder Handle into the ball joint of the Guiding Cylinder EV.
- Insert the Guiding Cylinder into the implant and hold it firmly.
- Ensure that the cylinder is aligned with the vertical axis of the implant throughout the whole procedure.

### Fragment Drill

- Connect the Fragment Drill into the contra angle (contra angle).
- **Drill counter-clockwise** with the fragment drill through the Guiding Cylinder with the **drilling equipment set at 1500 rpm**.
- Ensure that the indentation is centered in the screw fragment.
- Work intermittently with the drill and in between clean out possible fragments.
- Drill gently until a full depth cavity is created in the screw fragment. The drill limit is reached when the upper end of the black marking is in line with the upper end of the cylinder.

### Attach the Screw Extractor

- Attach the Screw Extractor into the Surgical Driver Handle.
- Make sure that the Screw Extractor is correctly placed into the handle. The hexagonal part of the shaft shall be fully inserted into the handle.



### Using the Screw Extractor

- Manually turn the Screw Extractor counter-clockwise into the fragment.
- Use the Torque Wrench EV as a ratchet wrench and turn counter-clockwise.
- Maintain downward pressure on the Screw Extractor.

**Note:** If the fragment cannot be removed, go to Step 4, removing the implant.

### Attach Thread Cleaner

- Attach the appropriate Thread Cleaner into the Restorative Driver Handle EV.
- Insert the Thread Cleaner carefully into the implant by hand and make sure that it engages properly in the threads.

### Thread cleaning

- Work the whole length of the thread intermittently with the Thread Cleaner half of a turn at a time and reverse in between to clean the threads and remove possible fragments.

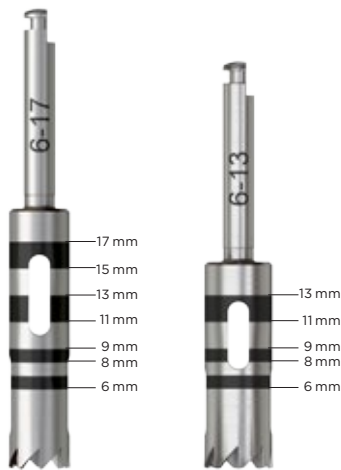
## Removal of an OsseoSpeed® EV implant

If all other methods to remove a partly or fully integrated implant are unsuccessful, a final option is to use a trephine drill to remove the implant.

This procedure should be used at the lowest possible speed under profuse irrigation and with the bone exposed for optimal visibility.



### STEP 4



#### Trephine Drill

- Markings: Diameter and length.

#### Select Trephine Drill

- Select the appropriate Trephine Drill and mount it into a contra angle (contra angle 20:1).
- **Drill under profuse irrigation at the lowest possible speed (a maximum of 300 rpm)**
- Make sure to follow the axis of the implant.

#### Using Trephine Drill

- Creating a starting groove in the periphery of the implant with a bur or similar can be a guide to help the trephine drilling.
- Continue to drill until the top of the implant reaches the appropriate depth marking.
- Lift out the implant with a pair of forceps or other appropriate instrument.

# Removal of an OsseoSpeed® TX implant

If all other methods to remove a partly or fully integrated implant are unsuccessful, a final option is to trephine out the implant. This procedure should be used at the lowest possible speed under profuse irrigation and with the bone exposed for optimal visibility.

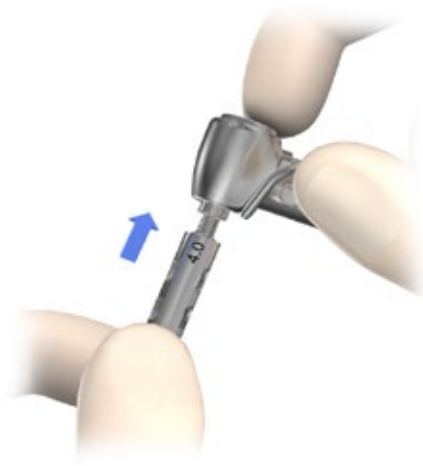
The Trephine Drill have slots that serve as depth markings. Please see the illustration below.



Trephine Drill  
3.5, 4.0 and 5.0.

Use Trephine Drill 5.0 for  
implant 4.5.

## STEP 4



### Trephine Drill

- The Trephine Drill has depth markings, and diameter

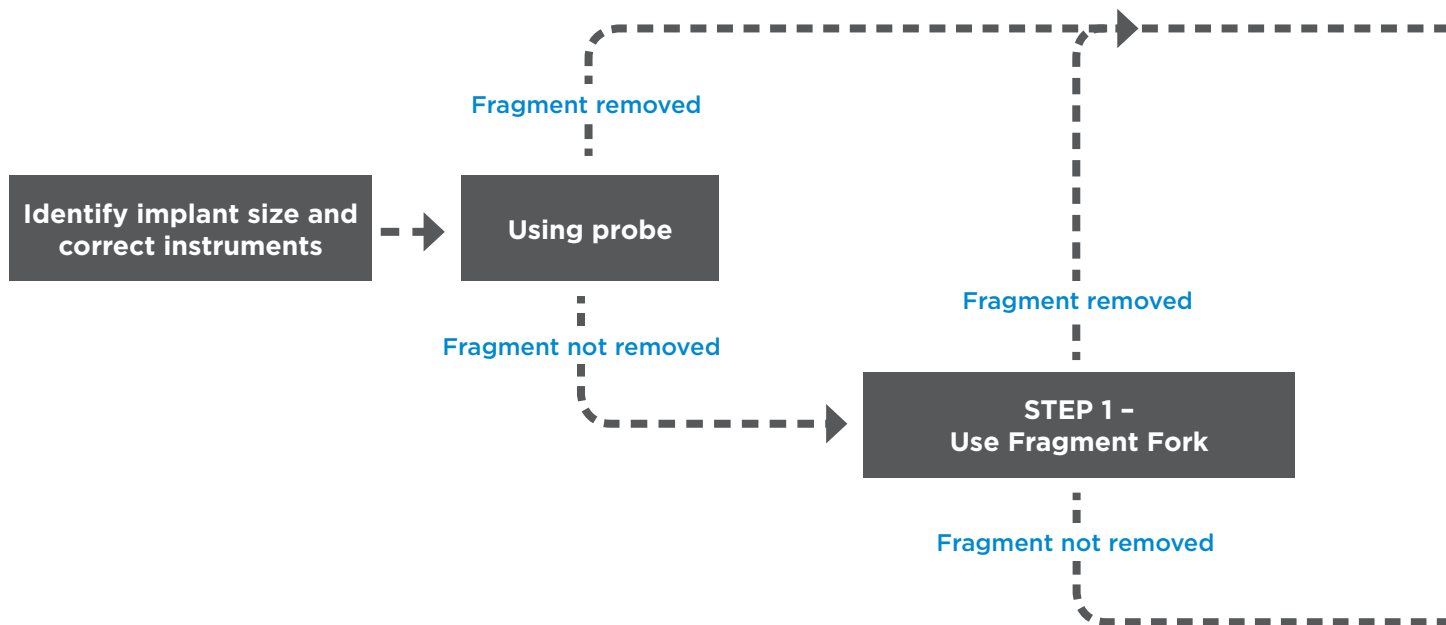
### Select Trephine Drill

- Select the appropriate trephine drill and mount it into a contra angle.
- **Drill under profuse irrigation at the lowest possible speed (a maximum of 300 rpm).**
- Make sure to follow the axis of the implant.

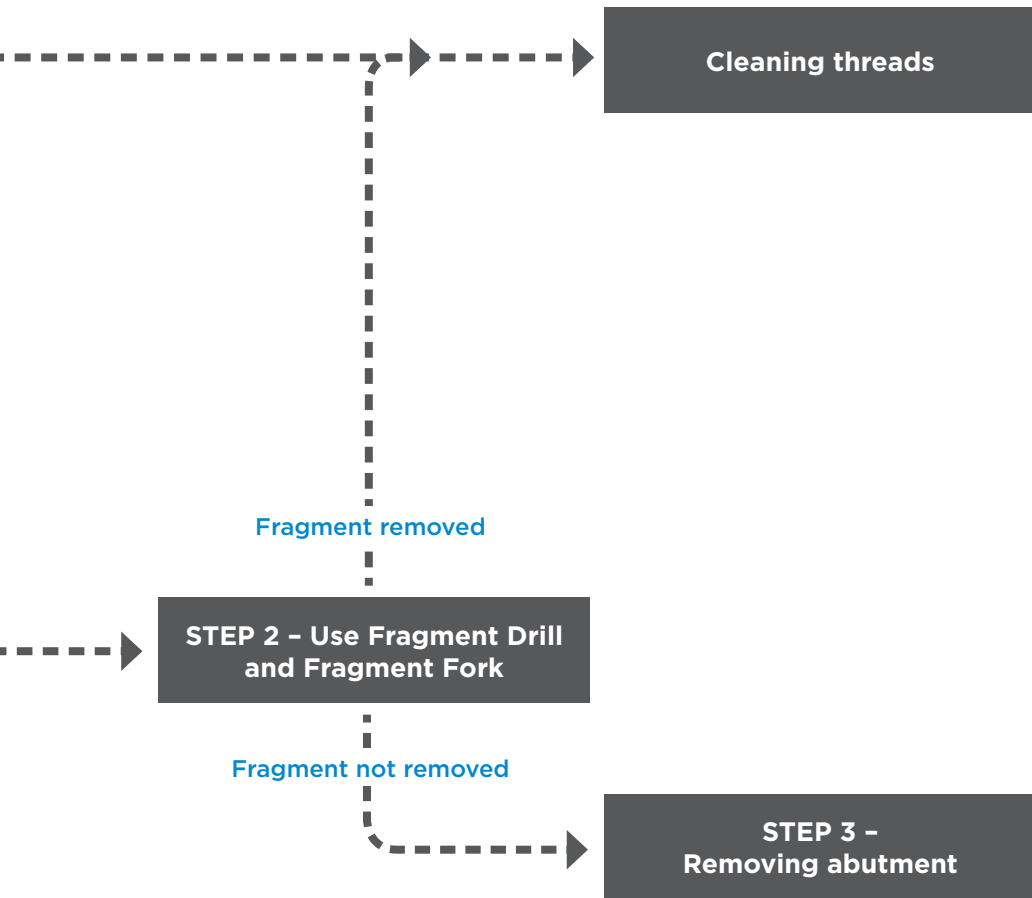
### Using Trephine Drill

- Creating a starting groove in the periphery of the implant with a bur or similar can be a guide to help the trephine drilling.
- Continue to drill until the top of the implant reaches the appropriate depth marking.
- Lift out the implant with a pair of forceps or any other appropriate instrument.

## Workflow - Bridge screw fracture in an abutment







## Bridge screw fracture in an abutment

Screw fractures may occur in abutments when unfavorable stress or forces are applied. The remaining screw fragments may be retrieved with Fragment Fork instruments. The Fragment Fork is designed to be used counter-clockwise and can often be used without damaging the threads.

The following steps describe the step-by-step procedures for retrieval of a bridge screw fragment in a Uni Abutment EV.

Identify the size of the implant/abutment and use the instruments accordingly (see the compatibility table on page 29).

Start by using a sharp probe to evaluate the mobility of the fragment and try to remove the screw fragment from the abutment by rotating it in a counter-clockwise direction.



### STEP 1



#### Connect and adjust

- Connect, adjust and lock the Guiding Cylinder Handle firmly into the ball joint of the Guiding Cylinder EV.

#### Place

- Place the guiding cylinder onto the abutment and hold it firmly.
- Ensure that the cylinder is aligned with the vertical axis of the abutment throughout the whole procedure.

#### Attach the Fragment Fork

- Attach the Fragment Fork into the Restorative Driver Handle EV.



### Using Fragment Fork

- Manually rotate the Fragment Fork in a counter-clockwise direction while pressing towards the screw fragment through the Guiding Cylinder.
- When the fragment is loose, continue unscrewing the screw fragment.

**Note:** If the fragment cannot be removed, go to Step 2, using the Fragment Drill.

### Attach Thread Cleaner

- Attach the appropriate Thread Cleaner into the Restorative Driver Handle EV.
- Insert the thread cleaner carefully into the screw hole by hand and make sure that it engages properly in the threads.

### Thread cleaning

- Work the whole length of the thread intermittently with the Thread Cleaner half of a turn at a time and reverse in between to clean the threads and remove possible fragments.

## Bridge screw fracture in an abutment

Drill with the Fragment Drill to make an indentation in the screw fragment as a starting point for the Fragment Fork.



### STEP 2



#### Connect and adjust

- Connect, adjust and lock the Guiding Cylinder Handle firmly into the ball joint of the Guiding Cylinder EV.

#### Place

- Place the guiding cylinder onto the implant and hold it firmly.
- Ensure that the cylinder is aligned with the vertical axis of the abutment throughout the whole procedure.

#### Attach Fragment Drill

- Attach the Fragment Drill into the contra angle (contra angle 20:1).
- **Drill counter-clockwise** with the fragment drill through the guiding cylinder and the **drilling equipment set at 1500 rpm**.
- Ensure that the indentation is centered in the screw fragment.
- Work intermittently with the drill and in between clean out possible fragments.
- Drill gently until a small cavity/indentation is created in the screw fragment.



### Using Fragment Fork

- Attach the Fragment Fork into the Restorative Driver Handle EV.
- **Manually rotate the Fragment Fork in a counter-clockwise direction** while pressing towards the screw fragment through the Guiding Cylinder.
- When the fragment is loose, continue unscrewing the screw fragment.
- Remove the guide and retrieve the fragment with a pair of forceps or similar instrument.

**Note:** If the fragment cannot be removed, go to Step 3 and remove the abutment using the Rescue Driver Uni Abutment EV.

### Attach Thread Cleaner

- Attach the appropriate Thread Cleaner to the Restorative Driver Handle EV.
- Insert the thread cleaner carefully into the screw hole by hand and make sure that it engages properly in the threads.

### Thread cleaning

- Work the whole length of the thread intermittently with the Thread Cleaner half of a turn at a time and reverse in between to clean the threads and remove possible fragments.

## Removal of Uni Abutment EV

Use the Rescue Driver Uni Abutment EV to remove the abutment.



### STEP 3



#### Rescue Driver Uni Abutment EV

- Use the Rescue Driver Uni Abutment EV for Uni Abutment EV.

#### Attach

- Insert the Rescue Driver Uni Abutment EV into the Surgical Driver Handle and into the wrench until there is an audible click.
- Make sure that the driver is correctly placed into the handle. The hexagonal part of the shaft shall be fully inserted into the handle.
- The arrow on the head of the wrench shows the direction in which the wrench is functioning and should be in "out" reverse mode.



#### Using Rescue Driver Uni Abutment EV

- Use the Torque Wrench EV as a ratchet wrench to reverse the abutment.
- Note:** The driver does not have any pick-up function; lift the abutment with a pair of forceps or other appropriate instrument.

## Removal of undamaged abutments *with* removal grooves

Abutments for screw-retention supplied with removal grooves, i.e. UniAbutments and Cresco Inserts within the Astra Tech Implant System, can be removed with the Removal Tool M1.4.



### STEP 3



#### Removal Tool M1.4

- Place the Removal Tool M1.4 on the abutment/insert. Make sure the ridges in the Removal Tool seat properly and engage the removal grooves in the abutment/insert.
- Tighten the screw with a Hex Screwdriver.

#### Using Removal Tool

- Use either the open-end Wrench or the Restorative Driver Handle 4x4 low and the Torque Wrench EV together and attach to the Removal Tool.
- Release the abutment/insert by turning it counter-clockwise with a firm, short movement.

#### Remove

- Unscrew manually when the abutment/insert is loose.
- To remove the abutment/insert from the Removal Tool, loosen the screw, which will separate the parts.

# Removal of undamaged abutments pre EV assortment *without* removal grooves

UniAbutments without removal grooves, can be removed using an Abutment Adapter. This instrument can also be used for UniAbutments and Cresco Inserts with removal grooves.



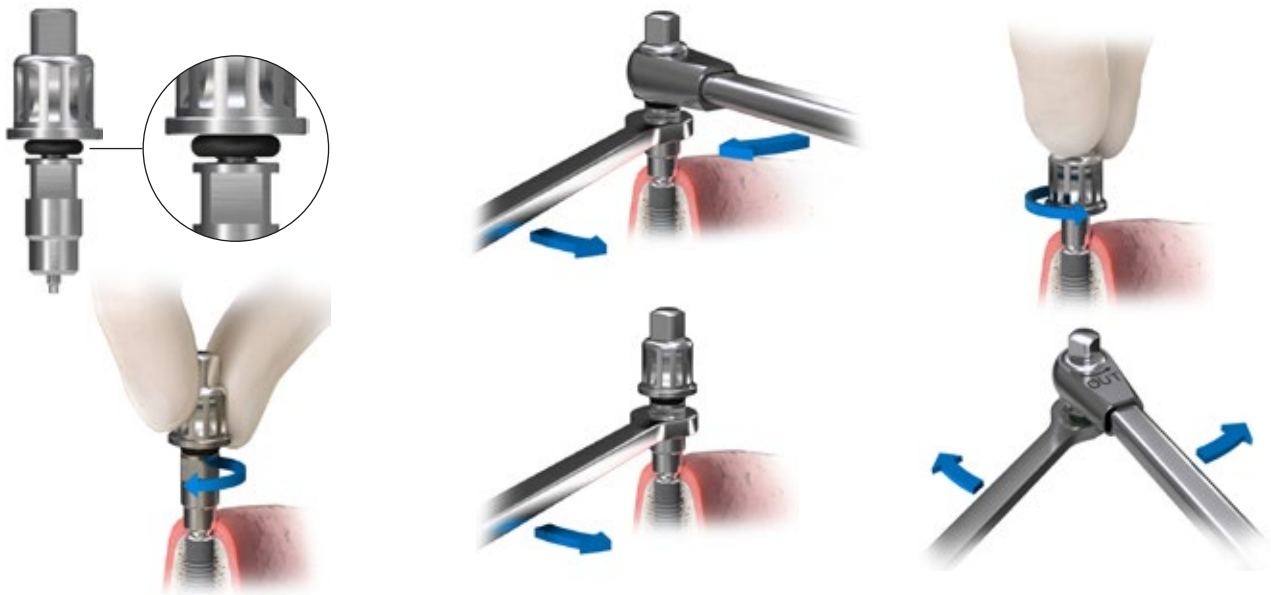
Abutment Adapter Short  
REF 24424

Abutment Adapter Long  
REF 24370



Wrench  
REF 22124

## STEP 3



### Prepare the Abutment Adapter

- Adjust the lock nut of the adapter until a gap is visible between the O-ring and the metal (1-2 mm).
- Make sure to keep the gap while mounting the adapter to the abutment/insert with finger light torque.

**Note:** Do not compress the O-ring.

### Using the wrenches

- Attach the open-end wrench on the lock nut and attach any of the ratcheting wrenches in the "IN" position onto the adapter head. Tighten/activate the adapter by moving the two instruments towards each other.
- When tightened/activated, use the wrench on the lock nut with a firm, short movement counter-clockwise to release the abutment.

### Release the abutment

- When the abutment is released, manually unscrew the abutment completely.
- Detach the adapter from the abutment with the open-end wrench and any of the ratchet alternatives in the "OUT" position. Move the instruments away from each other to loosen/deactivate the adapter.



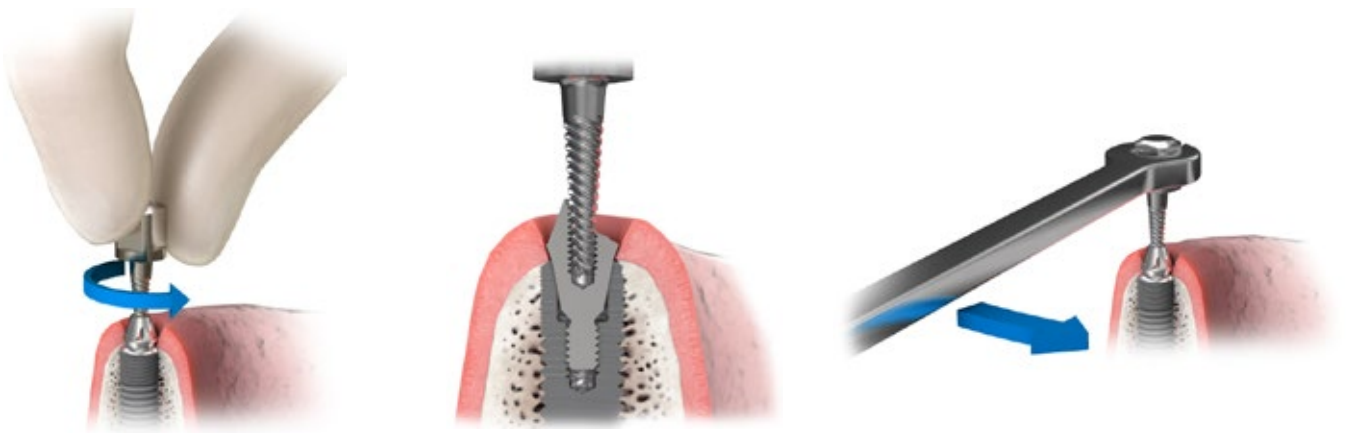
## Retrieval of damaged abutments

While the methods previously described can be used for removing fractured UniAbutments 20°/45° and Creco inserts with intact threads, in most cases, using a UniAbutment Retriever is a more efficient method. A UniAbutment Retriever must also be used to retrieve abutments with damaged threads.

**Note:** Using an Abutment Retriever for undamaged abutments with undamaged threads will cause damage to the threads during retrieval and the abutment will need to be replaced.



UniAbutment Retriever



### UniAbutment Retriever

- Place the UniAbutment Retriever in the threaded hole of the abutment and turn counter-clockwise while pressing down until it friction fits in the threads.

### Using UniAbutment Retriever

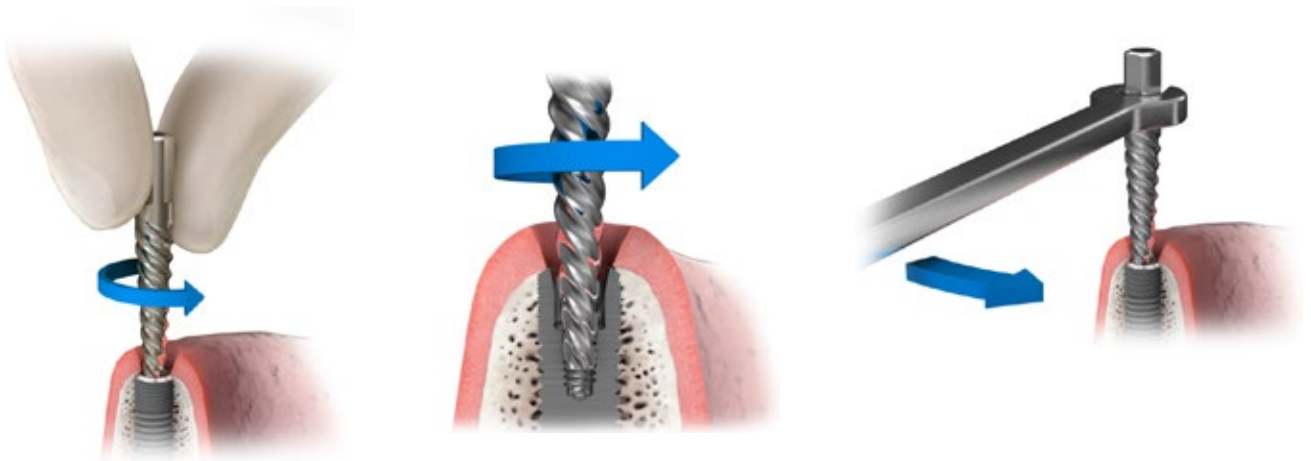
- In situations when only a short fraction of the screw hole remains, it may be difficult to achieve enough friction. In such instances, cut or grind off some of the instrument tip and try again.

### Remove

- Use either the open-end Wrench or the Restorative Driver Handle 4x4 low and the Torque Wrench EV together and attach to the UniAbutment Retriever. Continue the counter-clockwise rotation while maintaining a downward pressure until the abutment loosens.
- Continue manually until the abutment is completely detached.

## Retrieval of damaged implants

Removal of damaged implants or implants with damaged internal threads may require alternative methods, e.g., the use of the Implant Retriever. The Implant Retriever will fit in any of current or earlier implant product lines. It is designed to squeeze in the threaded area and create a friction grip when rotated counter-clockwise.



### Implant Retriever

- Place the Implant Retriever in the threaded area of the implant and turn counter-clockwise while pressing the retriever down until it sticks in position.

### Using Implant Retriever

- In situations where only a short fraction of the screw hole remains, it may be difficult to achieve enough friction. In such instances, cut or grind off some of the instrument tip and try again.

### Remove

- Use either the open-end Wrench or the Restorative Driver Handle 4x4 low and the Torque Wrench EV together and attach to the Implant Retriever. Continue the rotation while maintaining a downward pressure until the implant starts to rotate.
- Continue until the implant is out of the bone.

## Torque Wrench EV – handling

A torque wrench together with the driver handle is used for the repair procedures.



### Assemble

- Insert the Hex Driver EV or appropriate product / instrument into the Restorative Driver Handle and then into the wrench until there is an audible click.

### Handling

- Use a finger on the top of the driver handle to keep it steady and in place. Then gently pull the arm of the torque wrench in the direction of the arrow until the desired torque is achieved.

**Note:** The arm of the torque wrench must not go beyond the end of the scale as this could result in inaccurate torque readings.

**Note:** The arrow on the head of the wrench shows the direction in which the wrench is functioning.

### Disassemble

- Remove the driver from the wrench.
- Remove the head by pressing a finger into the recess (1) and gently pulling the head (2).



# Product catalog

## Repair procedures

If you need drills and other instruments, please refer to the Product catalogs for Astra Tech Implant System EV and Astra Tech Implant System.













# Compatibility table









Identify the implant/abutment size for OsseoSpeed EV or OsseoSpeed TX assortment.

Select the corresponding instruments; see the order number in the table below.

## Astra Tech Implant System® EV

	OsseoSpeed EV					OsseoSpeed Profile EV		Uni Abutment EV
								
								
Fragment Fork	25856	25856	25857	25857	25857	25857	25857	
Fragment Drill	25858	25858	25859	25859	25859	25859	25859	
Screw Extractor	25860	25860	25861	25861	25861	25861	N/A	
Thread Cleaner	25862	25863	25864	25865	25864	25865	25864	
Trephine Drill	6-13 mm 6-17 mm	25866	25867	25886 25868	25887 25869	25888 25870	25887 25869	N/A
Rescue Driver Uni Abutment EV							25794	

## Astra Tech Implant System®

	OsseoSpeed TX				OsseoSpeed TX Profile	20°/45° Uni Abutment
						
				 	4.5/5.0	
Fragment Fork	25856 (22122)	25856 (22122)	25856 (22122)	25857 (22632)	25857 (22632)	25856 (22122)
Fragment Drill	25858	25858	25858	25859	25859	25858
Screw Extractor	25860	25860	25860	25861	25861	N/A
Thread Cleaner	25862	25863	25863	25865	25865	25862
Thread Taps	22871	22873	22873	22875	22875	22871
Trephine Drill	25866	22884	22885	22890	22890	N/A
Retriever	22429	22192	22192	22192	22192	22429

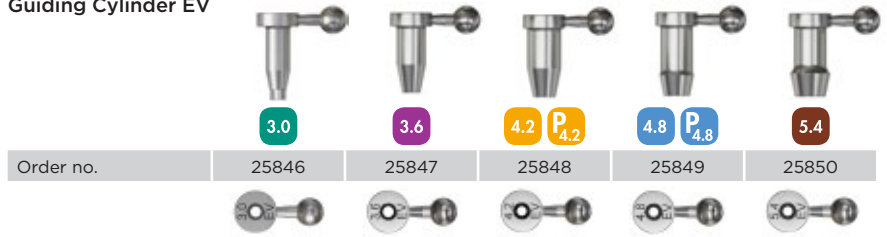
# Instruments to remove/retrieve screw fragments

## Guiding Cylinder EV

Stainless steel, non-sterile, single-use only

- Guides the instruments into the center of the fragment
- Protects the internal threads in the implant
- Marked with diameter and EV
- Use together with Guiding Cylinder Handle and Fragment Drill or Fragment Fork for OsseoSpeed EV implants

## Guiding Cylinder EV



## Guiding Cylinder Uni Abutment EV

Stainless steel, non-sterile, single-use only

- Guides the instruments into the center of the fragment
- Protects the internal threads in the abutment
- Marked with diameter and EV
- Use together with Guiding Cylinder Handle and Fragment Drill or Fragment Fork for Uni Abutment EV in Astra Tech Implant System EV

## Guiding Cylinder Uni Abutment EV



## Guiding Cylinder Handle

Stainless steel, non-sterile

- Adjustable handle for Guiding Cylinders

## Guiding Cylinder Handle

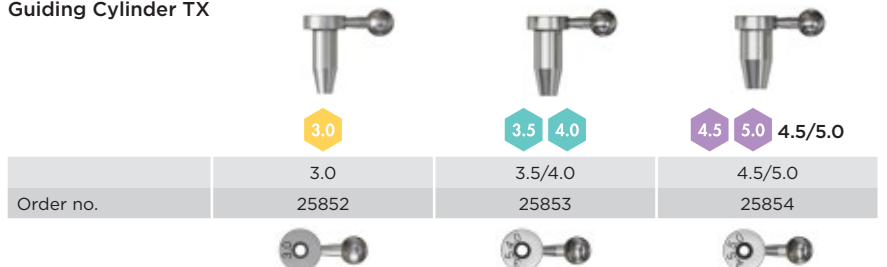


## Guiding Cylinder TX

Stainless steel, non-sterile, single-use only

- Guides the instruments into the center of the fragment
- Protects the internal threads in the implant
- Marked with diameter
- Use together with Guiding Cylinder Handle and Fragment Drill or Fragment Fork for OsseoSpeed TX implants

## Guiding Cylinder TX



## Guiding Cylinder UniAbutment 20°/45°

Stainless steel, non-sterile, single-use only

- Guides the instruments into the center of the fragment
- Protects the internal threads in the abutment
- Marked with diameter and TX
- Use together with Guiding Cylinder Handle and Guiding Fragment Drill or Fragment Fork for UniAbutment 20°/45° in Astra Tech Implant System

## Guiding Cylinder UniAbutment 20°/45°



**Fragment Fork**



	M1.4/M1.6	M1.8/M2.0
Ø	0.8	1.0
Order no.	25856	25857

**Fragment Fork**

Tungsten-Carbide, non-sterile, single-use only

- Used for retrieval of fractured abutment- and bridge screws fragment
- For manual use only
- Marked with thread size
- Use together with Restorative Driver Handle EV

**Fragment Fork**



	1.0	1.4
Ø	1.0	1.4
Order no.	22122	22632

**Fragment Fork**

Tungsten-Carbide, non-sterile

- Used for retrieval of fractured abutment- and bridge screws fragment

**Fragment Drill**



	0.8	1.0
Ø	0.8	1.0
Order no.	25858	25859

**Fragment Drill**

Shank: Stainless steel  
Cutting portion: Tungsten-Carbide  
Non-sterile, single-use only

- Used for creating an indentation in the abutment- or bridge screw fragment
- Drill counter-clockwise
- Marked with diameter

**Screw Extractor**



	0.8	1.0
Ø	0.8	1.0
Order no.	25860	25861

**Screw Extractor**

Stainless steel, non-sterile, single-use only

- Used for retrieval of abutment screw fragments
- Rotate the screw extractor counter-clockwise
- Marked with diameter
- Use together with Surgical Driver Handle EV

**Note:** Manual use only.

## Instruments to clean internal threads

### Thread Cleaner

Stainless steel, non-sterile, single-use only

- Used for cleaning of threads internally in an implant/abutment
- Marked with thread size
- Use together with Restorative Driver Handle

**Note:** Manual use only.

### Thread Cleaner



	M1.4	M1.6	M1.8	M2.0
Order no.	25862	25863	25864	25865

### Thread Taps

To create new threads internally in a damaged implant/abutment.

- Used for cleaning of threads internally in an implant/abutment
- Used together with Driver Handle

**Note:** Manual use only.

### Thread Taps



	M1.4	M1.6	M2.0
Order no.	22871	22873	22875



# Instruments to remove/retrieve abutments

## Rescue Driver Uni Abutment EV



## Rescue Driver Uni Abutment EV

Stainless steel, non-sterile

- Used for retrieval of Uni Abutment EV

Order no.	25794
-----------	-------

## Removal Tool M1.4



## Removal Tool M1.4

Stainless steel, non-sterile

- For removal of UniAbutment 20° and 45° with grooves and Cresco Insert 20° and 45°
- Use together with Ratchet Wrench/ Torque Wrench/Surgical Wrench or Wrench (22124)

	Short	Long
Length mm	18	30
Order no.	24021	24037

## Abutment Adapter



## Abutment Adapter

Stainless steel, non-sterile

- For removal of UniAbutment 20° and 45° without grooves
- Use together with Ratchet Wrench/ Torque Wrench/Surgical Wrench or Wrench (22124)

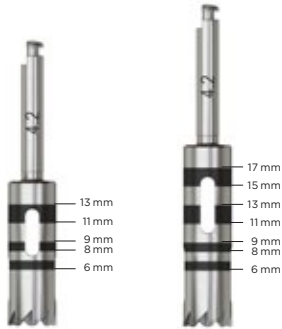
	Short	Long
Length mm	25	35
Order no.	24424	24370

# Instruments to remove/retrieve implants

## Trephine Drill

Stainless steel, non-sterile, single-use only

- Used for the retrieval of partly or fully integrated OsseoSpeed EV implants.
- Marked with diameter and length.



## Trephine Drill



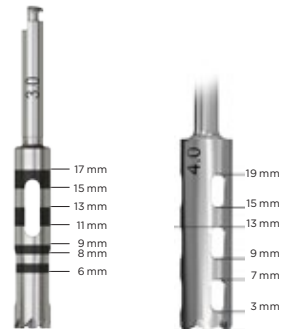
Length mm	6-17mm	6-17mm	6-13mm	6-17mm	6-13mm	6-17mm	6-13mm	6-17mm
Inner Ø mm	3.2	3.8	4.4	4.4	5.0	5.0	5.6	5.6
Outer Ø mm	4.0	4.6	5.2	5.2	5.8	5.8	6.4	6.4
Order no.	25866	25867	25886	25868	25887	25869	25888	25870

\*Note: Same drill for all 3.0 implants and single-use only.

## Trephine Drill

Stainless steel, non-sterile

- Used for the retrieval of partly or fully integrated implants.
- Marked with diameter and length.



## Trephine Drill



Length mm	6-17 mm	3.5	4.0	4.5	5.0
Inner Ø mm	3.2	3.65	4.2	5.15	5.15
Outer Ø mm	4.0	4.5	5.1	6.15	6.15
Order no.	25866	22884	22885	22890	22890

\*Note: Same drill for all 3.0 implants and single-use only.

## Abutment Retriever

Stainless steel, non-sterile

- Use together with a wrench.

## Abutment Retriever



Order no.	22429
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## Implant Retriever

Stainless steel, non-sterile

- Use together with a wrench.

## Implant Retriever



Order no.	22192
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## General instruments

### Torque Wrench EV



Order no.	25774
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### Torque Wrench EV

Stainless steel, non-sterile

- Use together with a Driver Handle.

### Torque Wrench EV, Surgical Driver Handle



Ø mm	8.9
Length mm	15.3
Order no.	25775

### Torque Wrench EV, Restorative Driver Handle



Ø mm	8.9	8.9
Length mm	15.5	11.5
Order no.	25776	25777

### Torque Wrench EV, Restorative Driver Handle 4x4 low



Ø mm	8.9
Length mm	9.7
Order no.	25730

### Torque Wrench EV, Surgical Driver Handle

Stainless steel, non-sterile

### Torque Wrench EV, Restorative Driver Handle 4x4 low

Stainless steel, non-sterile

### Hex Driver EV Manual



	Short	Intermediate	Long
Total length mm	20	31	38
Order no.	25771	25772	25773

### Hex Driver EV Manual

Stainless steel, non-sterile

### Wrench



Order no.	22124
-----------	-------

### Wrench

Titanium, non-sterile

- Use together with an adapter and/or retriever.

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# Explanation of the symbols on labels and instructions for use

Symbol	Text
 Date of manufacture	Date of manufacture.
	Legal manufacturer
 Use by	Expiry date.
<b>STERILE R</b>	Sterilized using irradiation.
<b>Rx Only</b>	<b>Caution:</b> Federal (USA) law restricts this product to sale by or on a order of a dentist.
 Single use	Do not re-use, Single use only.
 Do not re-sterilize	Do not re-sterilize.
	GOST is the valid quality certification system in Russian Federation.

Symbol	Text
	Astra Tech Implant System® products carry the CE mark and fulfill the requirements of the Medical Device Directive.
 Do not use if package is damaged	Do not use if package is damaged.
 For instructions for use and symbols glossary refer to <a href="http://ifu.dentsplysirona.com">ifu.dentsplysirona.com</a>	Consult instructions for use.*
	Consult instructions for use.
<b>LOT</b>	LOT/BATCH number.
<b>REF</b>	Article number.
	Contains article number (GTIN number), lot number and quantity.

\* To read PDF files you will need Adobe Reader.  
Download free of charge at [get.adobe.com/reader](http://get.adobe.com/reader).

# Cleaning and sterilization instructions

Products within Astra Tech Implant System EV are designed to be cleaned and sterilized before clinical use with the exception of sterile products. Please follow the instructions stated in the Cleaning and sterilization instructions for Astra Tech Implant System EV.

The cleaning and sterilization instructions for Astra Tech Implant System EV assortment has been developed and validated by Dentsply Sirona. The instructions have been developed in accordance with the applicable standards.



Astra Tech Implant System®  
Cleaning and sterilization instructions  
for Astra Tech Implant System® EV



The image shows a collection of dental implant components. On the left is a white plastic tray with a blue lid, containing various small parts. To the right are several long, thin metal drill bits with yellow and black markings, and a long, thin metal ruler with a small key-like component attached to it. In the top left corner of the image area is a circular logo that reads "NOW PART OF ASTRA TECH IMPLANT SYSTEM DENTSPLY SIRONA".

Cleaning and sterilization instructions for Astra Tech Implant System EV - 32671332



## 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](http://www.dentsplysirona.com) for more information about Dentsply Sirona and its products.