



**TRISTAN<sup>®</sup>**

Cervical Interbody Fusion



TRISTAN® Cervical Interbody Fusion is an implant system which is intended as a disc replacement for a long-term usage for anterior stabilization in the cervical spine from C3 to C7 in patients whose general skeletal growth has ended.

The system includes implants of various dimensions, heights and angulations, whereby the unique anatomy of the individual patient can be taken into account.

TRISTAN® is implanted via an anterior approach and cervical discectomy and offers the following product-specific benefits:

### Anatomical design

- Form analogous to anatomy in cross-section and sagittal profile, with flat base plate and convex cover plate
- Generous contact surface

### Stability

- Antegrade toothing for solid adherence
- Cranial convex contact surfaces for secure, long-lasting and high-precision seating

### Integrity

- Large filling aperture for rapid fusion
- Internal annular groove holds the filling material in the cage and increases the filling capacity

### Modularity

Three freely selectable material options:

#### • Titanium alloy Ti6Al4V

The titanium alloy Ti6Al4V has proven to be biocompatible.

#### • PEEK

This material is biocompatible and is characterised by elasticity similar to that of bone. A further advantage is that the material does not cause X-ray artifacts.

#### • R-PEEK-Ti

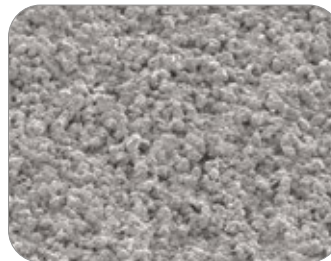
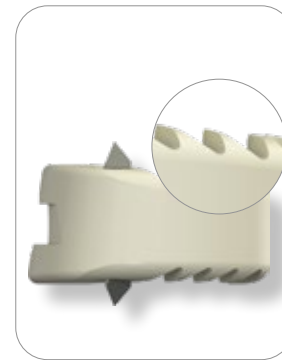
The titanium coating applied to the PEEK base body is intended to support a direct growth of the bone on the implant.



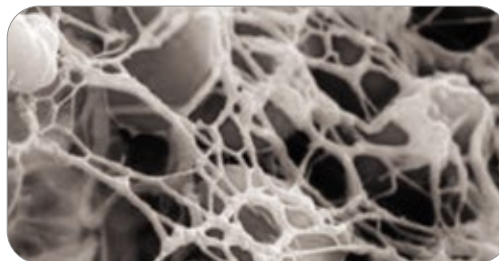
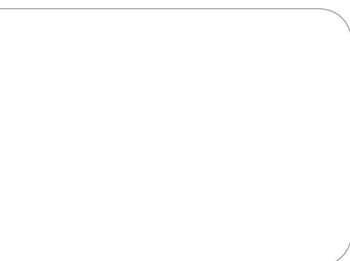
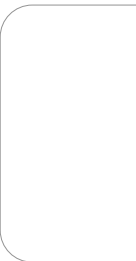
# TRISTAN®

Interbody Device System

## Product-specific benefits



- Anatomical design
- Stability
- Integrity
- Modularity



## TRISTAN® Titanium

TRISTAN® Titanium is a solid titanium implant designed for cervical interbody fusion, and is used in degenerative disc diseases and instabilities in the C3-C7 area. Combined with reliable and simple instruments, TRISTAN® Titanium is the ideal solution for cervical interbody fusion. Only titanium alloy Ti6Al4V (DIN EN ISO 5832-3) is used. The titanium cages are available both as sterile-packed implants and in non-sterile form, stored directly in the implant tray.

## TRISTAN® PEEK-S

TRISTAN® PEEK-S is an implant made from biocompatible PEEK-Optima®, which is designed for cervical interbody fusion and used in degenerative disc diseases and instabilities in the C3-C7 area. PEEK-OPTIMA® is a polyaromatic, semicrystalline thermoplastic, based on the formula  $(-C_6H_4-O-C_6H_4-O-C_6H_4-CO-)_n$ , commonly known as polyetheretherketone. The X-ray transparent material allows quick and easy assessment of the bone structure and the fusion process. The titanium spikes on the top and bottom allow for secure anchoring in the correct position. Additional X-ray markers serve to verify three-dimensional positioning. A mechanical stability of 3.6 GPa allows for load transmission between the implant material and natural bone.

## TRISTAN® R-PEEK Ti

The titanium coating of the TRISTAN® R-PEEK Ti cages combine the benefits of different materials in one implant. The basis of the implant is a solid PEEK core. This core is coated with titanium to increase the surface area and thus maximize the contact zone between the implant and the vertebral body surface. The titanium coating is intended to support a direct growth of the bone on the implant.

## Properties of PEEK and R-PEEK Ti cages

- PEEK is X-ray transparent and produces no artifacts
- Position verification using X-ray markers
- Anatomical, toothed form
- The semi-circular shape provides the maximum contact area
- Possibility of filling with bone or bone substitute material for improved bone penetration
- Secure attachment to the Cage Inserter via a threaded connection
- R-PEEK-Ti implants have the same positive properties as PEEK implants in combination with the Ti-coated surface

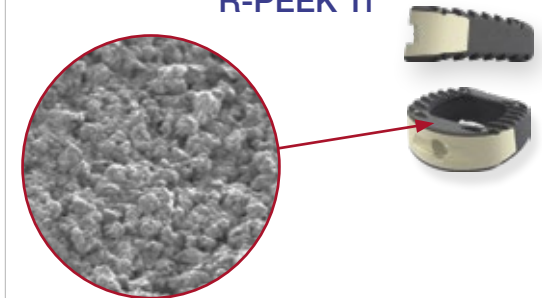
## Titanium non-sterile/sterile



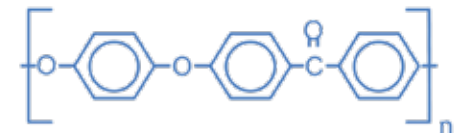
## PEEK-S



## R-PEEK Ti



PEEK-OPTIMA® is a polyaromatic, semicrystalline thermoplastic, based on the formula  $(-C_6H_4-O-C_6H_4-O-C_6H_4-CO-)_n$ , commonly known as polyetheretherketone.





### Exposing the intervertebral space

The intervertebral space is opened and resected by fenestration of the anterior longitudinal ligament.

**Note:**

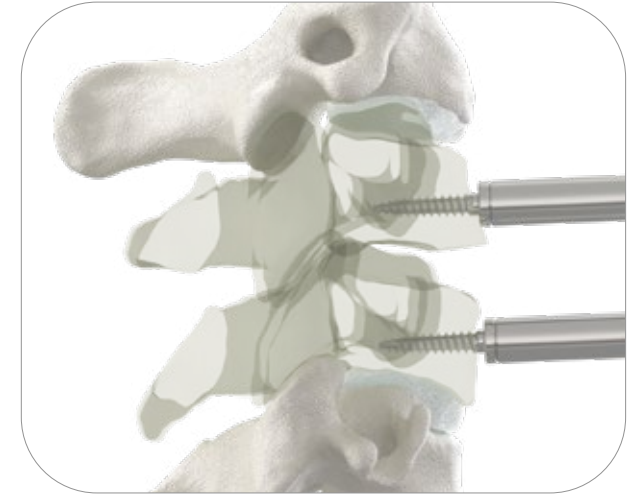
The anatomical anterior edge of the vertebral body must remain intact.



### Inserting the Distraction Pins I

The Distraction Pin is inserted into the end of the Pindriver from below until it locks into place by the locking spring located on the Pindriver. Care should be taken to align the hexagonal profile so that the Distraction Pin is correctly positioned in the Pindriver.

The Distraction Pins are then placed in the caudal and cranial vertebrae adjacent to the section to be treated. It is important to ensure that the Distraction Pins are positioned as centrally as possible in the vertebral body during this process. In osteoporotic bone conditions, the Distraction Pins can also be inserted close to the endplates in order to achieve better and more secure anchoring and retraction stability.



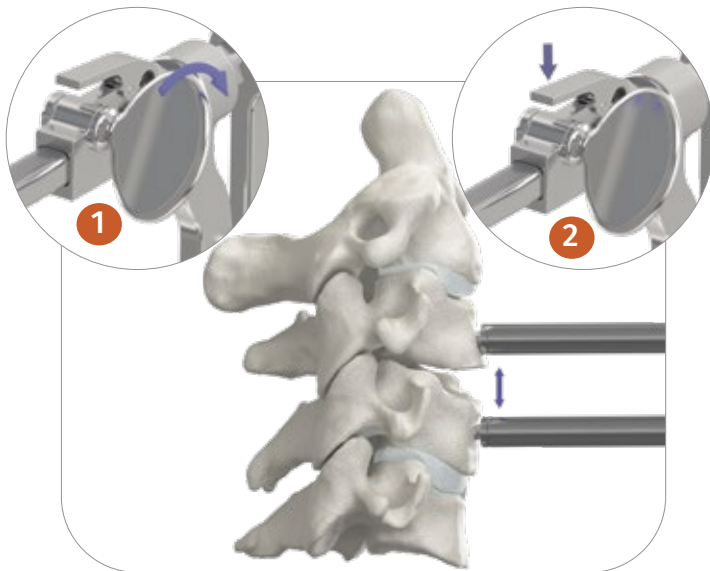
### Inserting the Distraction Pins II

The correct length for the Distraction Pins is determined via X-ray. Once the Distraction Pin has been screwed in, the Pindriver is carefully removed by pulling it backwards.

**Caution:**

The Distraction Pins must not perforate the posterior edge of the vertebral body. The Distraction Pins must not be introduced into a hole that has been used previously. Otherwise the Distraction Pins' purchase in the bone is reduced and they may be pulled out of the bone when the Pindriver is withdrawn. The Distraction Pins are designed for single use only.





### Expansion of the intervertebral space

The Retrival Body Retractor is placed onto the protruding ends of the Distraction Pins from above. The intervertebral space is then carefully expanded by turning the setting wheel (1) on the Retrival Body Retractor, thereby exposing the intervertebral space as far as the posterior edge.

#### Note:

The degree of expansion that is set on the Retrival Body Retractor is retained via a locking mechanism. To release the expansion or correct the position, press the lever (2) located on the instrument.

### Surgical technique



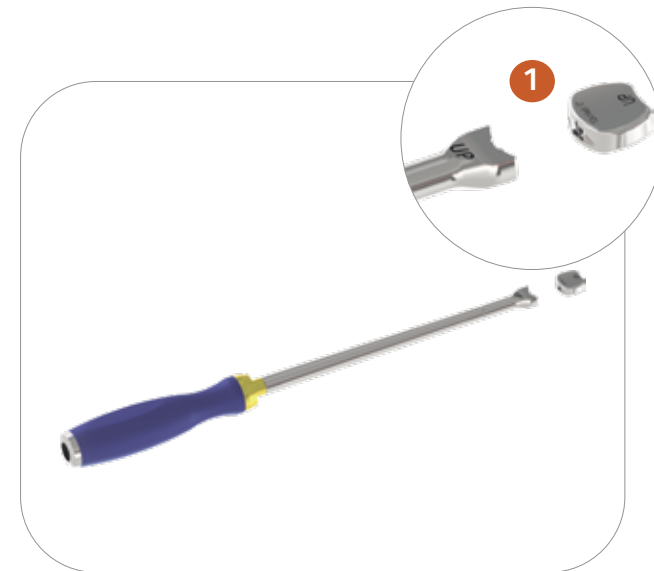
### Preparation of the intervertebral space and implant bed

The intervertebral space is fully cleared and disc material is removed.

The implant bed is prepared and the endplates are freshened up e.g. using curettes.

#### Caution:

Care should be taken to maintain the integrity of the endplates. Damage to the endplates or excessive partial abrasion of the endplates can lead to sintering of the implant and loss of segmental stability.



### Assembling the TRISTAN Trial

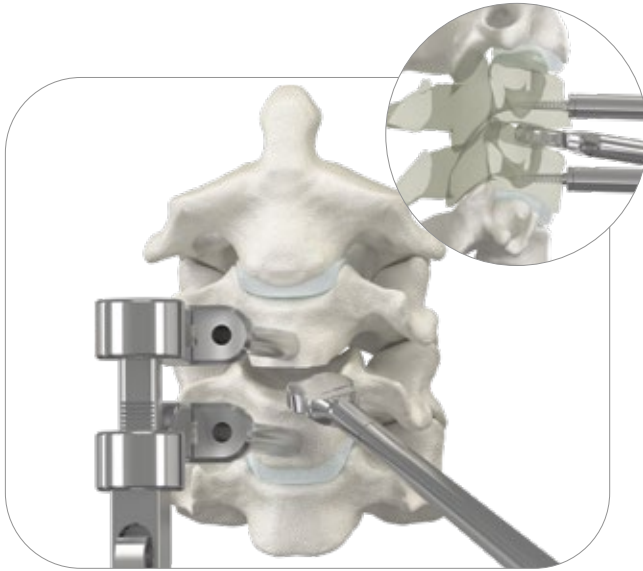
The correct implant size and angulation can be determined under X-ray control using the TRISTAN Trials. To connect the TRISTAN Trial to the Cage Inserter, the bar of the Cage Inserter must be positioned in the groove of the TRISTAN Trial. Tristan Inserter B is screwed into the TRISTAN Trial in order to fix it to the Cage Inserter.

#### Caution:

Care should be taken to ensure that the TRISTAN Trial is correctly aligned with the Cage Inserter. The sides marked "up" must both face in the same direction (1).

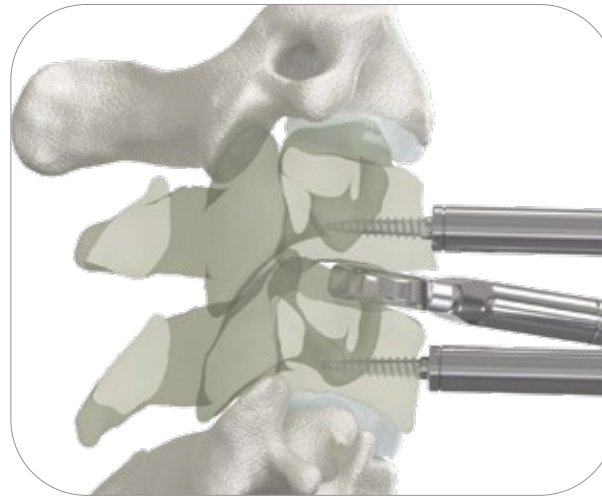
#### Note:

Two models of the Cage Inserter are available – one variant with a depth stop (Cage Inserter with stop) and one without (Cage Inserter).



### Determining the implant size I

The TRISTAN Trial is introduced into the disc space, using light hammer taps if necessary. The TRISTAN Trial should fit as snugly as possible in the prepared intervertebral space. If necessary, further preparation of the implant bed should be carried out until the required fit accuracy is obtained. Correct fitting of the TRISTAN Trial is achieved when the anterior edge is positioned around 1-2 mm behind the anterior edge of the vertebral body and the cage length occupies around 4/5 of the anteroposterior expansion of the intervertebral space and ends in front of the posterior edge of the vertebral body.



### Determining the implant size II

If the seating is not satisfactory, the TRISTAN Trial of the next size up should be used. The lateral profile and the distraction can be assessed by X-ray control.

#### Caution:

The TRISTAN Trial provides information about the height of the implant. Overdistraction should be avoided. Once the implant size has been determined, the TRISTAN Trial is removed and released from the Cage Inserter.



### Assembling the implant I

The implant corresponding to the TRISTAN Trial is selected and the bar of the Cage Inserter is positioned in the groove of the implant. Tristan Inserter B is screwed into the implant in order to fix it to the Cage Inserter. When assembling the cage, care should be taken to ensure that the sides marked "up" both face upwards.

#### Note:

To avoid damaging the implant, the implant must be firmly connected to the Cage Inserter.

#### Attention:

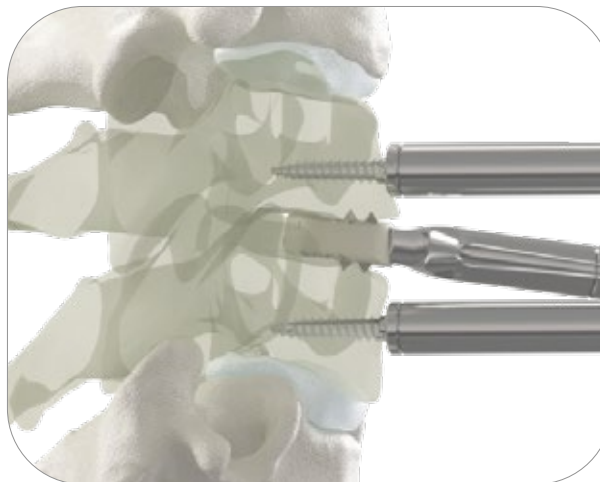
When using Tristan PEEK-S implants, the colored packaging protection must be removed after removing the implant from the sterile packaging.



### Assembling the Implant II

Care should be taken to ensure that Tristan Inserter B is screwed in smoothly in order to avoid deforming the thread. If necessary, the orientation of the instrument to the implant should be corrected. To prevent cross-threading while screwing in Tristan Inserter B, first turn the Tristan Inserter B anticlockwise until you clearly feel the thread catch. Tristan Inserter B is then fully screwed into the implant.

After screwing the implant onto the Cage Inserter, the cage can be filled with autologous bone material, allogeneic or other bone substitute material for faster and more secure fusion.



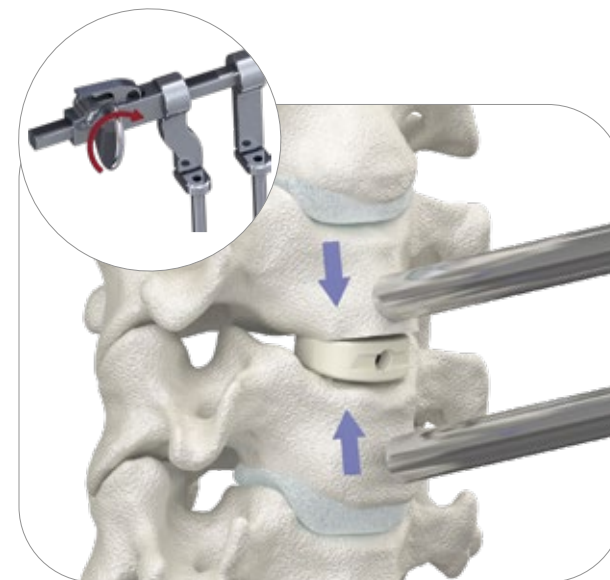
### Inserting the cage

The implant is introduced into the disc space, using light hammer taps if necessary. If necessary, the implant can be hammered further using the Cage Inserter without stop in order to attain optimal seating of the cage within the intervertebral space. Final seating of the implant must be checked using X-ray.

The insertion instrument can also be used to correct the position of the implant. For this, the bar of the Cage Inserter must be positioned in the groove of the implant. Tristan Inserter B is screwed into the implant in order to fix it to the Cage Inserter. When setting up the inserter subsequently, care should be taken to ensure that the sides marked "UP" face upwards.

#### **Note:**

To avoid damage to the implant, the implant must be firmly connected to the Cage Inserter.



### Compressing the vertebral bodies

**(where TRISTAN® PEEK-S implants are used)**

Once the cage has been inserted into its final position, care should be taken to ensure that the spikes of the cage penetrate the base plate and cover plate. This is achieved by compression of the adjacent vertebral bodies using the Retrieval Body Retractor. Finally, the Retrieval Body Retractor and Distraction Pins are removed. To do this, the Pindriver is pushed onto the Distraction Pin until it stops. Care should be taken to align the hexagonal profile. The locking spring located on the Pindriver ensures that the Distraction Pin can not get lost.

#### **Note:**

In order to compress the vertebral bodies with the Retrieval Body Retractor, the lever on the locking mechanism must be held down. By turning the setting screw in the opposite direction to the distraction, the vertebral bodies can then be compressed until the spikes penetrate the base plate and cover plate. Alternatively, the arms of the instrument can be carefully pushed together by hand, holding the lever of the locking mechanism pressed down.



### Positioning the markers in TRISTAN® PEEK-S and TRISTAN® R-PEEK-Ti

To ensure the cage is positioned correctly, it must be placed in a central position after insertion into the disc space.

The X-ray markers fitted within PEEK implants allow the implant position to be visualised using a fluoroscope. This enables the exact location of the cage to be assessed using X-ray images.

Two markers are built into TRISTAN® PEEK-S implants on the posterior implant margin, along with 4 spikes at the lateral anterior implant margin which also serve as markers. The four anterior markers show the maximum width of the cage. In combination with the two posterior markers, these allow the implant depth to be assessed. For TRISTAN® PEEK-S implants, the markers appear as shown in the X-ray image when the implant is positioned centrally within the disc space.

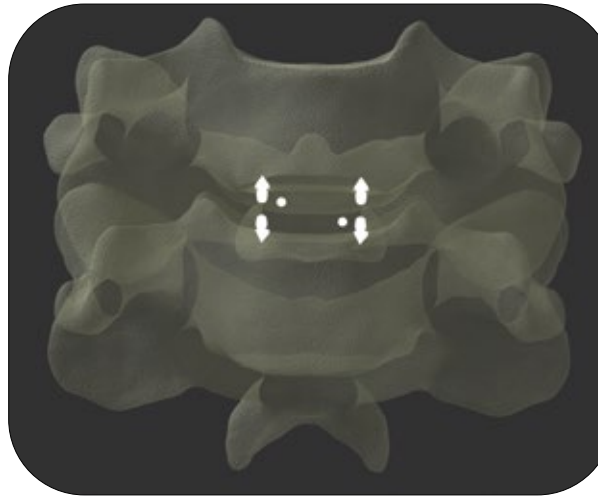


**TRISTAN®  
PEEK-S**

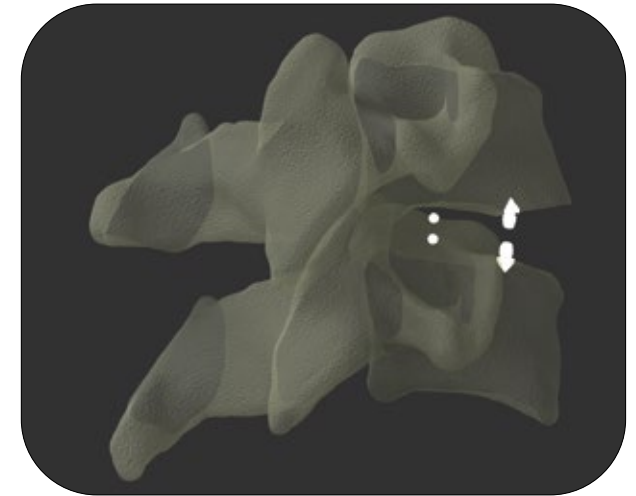
In TRISTAN® R-PEEK-Ti implants, four markers are located at the posterior implant margin and four markers are located laterally at the anterior implant margin. The four anterior markers show the maximum width of the cage. In combination with the four posterior markers, these allow the implant depth to be assessed. In TRISTAN® R-PEEK-Ti implants, the four posterior and four anterior markers appear as shown in the X-ray image when the implant is positioned centrally within the disc space.



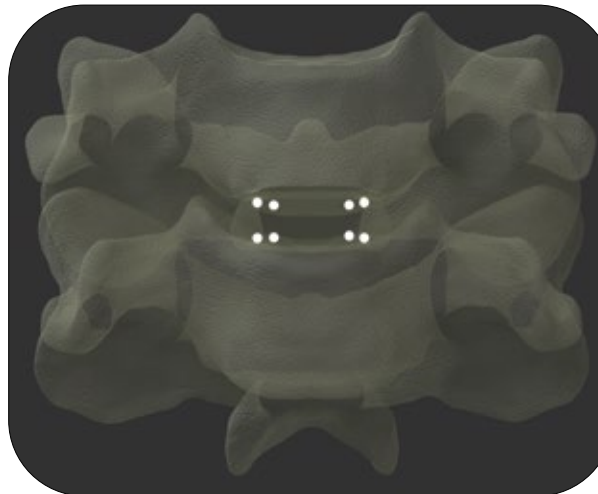
**TRISTAN®  
R-PEEK Ti**



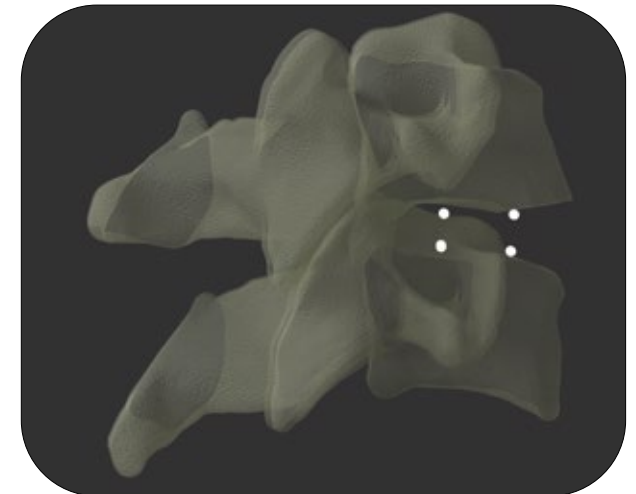
**AP view X-ray**  
of a centrally positioned TRISTAN® PEEK-S  
cage



**Sagittal view X-ray**  
of a centrally positioned TRISTAN® PEEK-S  
cage



**AP view X-ray**  
of a centrally positioned TRISTAN® R-PEEK-Ti  
cage



**Sagittal view X-ray**  
of a centrally positioned TRISTAN® R-PEEK-Ti  
cage

# TRISTAN® Titanium (sterile)



## Implants

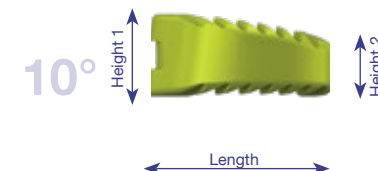
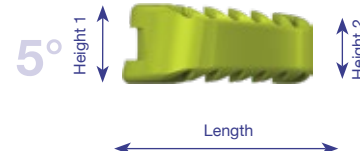
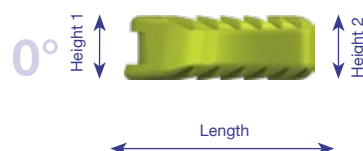
STERILE

| Item no.     | Name                          | Length | Width | Height 1 | Height 2 | Angle |
|--------------|-------------------------------|--------|-------|----------|----------|-------|
| 1501040304-S | Tristan Ti 12x14x4 sterile    | 12     | 14    | 6        | 4        | 10°   |
| 1501040305-S | Tristan Ti 12x14x5 sterile    | 12     | 14    | 7        | 5        | 10°   |
| 1501040306-S | Tristan Ti 12x14x6 sterile    | 12     | 14    | 8        | 6        | 10°   |
| 1501040307-S | Tristan Ti 12x14x7 sterile    | 12     | 14    | 9        | 7        | 10°   |
| 1501040308-S | Tristan Ti 12x14x8 sterile    | 12     | 14    | 10       | 8        | 10°   |
| 1501050304-S | Tristan Ti 14x16x4 sterile    | 14     | 16    | 6        | 4        | 10°   |
| 1501050305-S | Tristan Ti 14x16x5 sterile    | 14     | 16    | 7        | 5        | 10°   |
| 1501050306-S | Tristan Ti 14x16x6 sterile    | 14     | 16    | 8        | 6        | 10°   |
| 1501050307-S | Tristan Ti 14x16x7 sterile    | 14     | 16    | 9        | 7        | 10°   |
| 1501050308-S | Tristan Ti 14x16x8 sterile    | 14     | 16    | 10       | 8        | 10°   |
| 1502071204-S | Tristan Ti 12x14x4 5° sterile | 12     | 14    | 5        | 4        | 5°    |
| 1502071205-S | Tristan Ti 12x14x5 5° sterile | 12     | 14    | 6        | 5        | 5°    |
| 1502071206-S | Tristan Ti 12x14x6 5° sterile | 12     | 14    | 7        | 6        | 5°    |
| 1502071207-S | Tristan Ti 12x14x7 5° sterile | 12     | 14    | 8        | 7        | 5°    |
| 1502071208-S | Tristan Ti 12x14x8 5° sterile | 12     | 14    | 9        | 8        | 5°    |
| 1502071404-S | Tristan Ti 14x16x4 5° sterile | 14     | 16    | 5        | 4        | 5°    |
| 1502071405-S | Tristan Ti 14x16x5 5° sterile | 14     | 16    | 6        | 5        | 5°    |
| 1502071406-S | Tristan Ti 14x16x6 5° sterile | 14     | 16    | 7        | 6        | 5°    |
| 1502071407-S | Tristan Ti 14x16x7 5° sterile | 14     | 16    | 8        | 7        | 5°    |
| 1502071408-S | Tristan Ti 14x16x8 5° sterile | 14     | 16    | 9        | 8        | 5°    |

| Item no.     | Name                          | Length | Width | Height 1 | Height 2 | Angle |
|--------------|-------------------------------|--------|-------|----------|----------|-------|
| 1502081204-S | Tristan Ti 12x14x4 0° sterile | 12     | 14    | 4        | 4        | 0°    |
| 1502081205-S | Tristan Ti 12x14x5 0° sterile | 12     | 14    | 5        | 5        | 0°    |
| 1502081206-S | Tristan Ti 12x14x6 0° sterile | 12     | 14    | 6        | 6        | 0°    |
| 1502081207-S | Tristan Ti 12x14x7 0° sterile | 12     | 14    | 7        | 7        | 0°    |
| 1502081208-S | Tristan Ti 12x14x8 0° sterile | 12     | 14    | 8        | 8        | 0°    |
| 1502081404-S | Tristan Ti 14x16x4 0° sterile | 14     | 16    | 4        | 4        | 0°    |
| 1502081405-S | Tristan Ti 14x16x5 0° sterile | 14     | 16    | 5        | 5        | 0°    |
| 1502081406-S | Tristan Ti 14x16x6 0° sterile | 14     | 16    | 6        | 6        | 0°    |
| 1502081407-S | Tristan Ti 14x16x7 0° sterile | 14     | 16    | 7        | 7        | 0°    |
| 1502081408-S | Tristan Ti 14x16x8 0° sterile | 14     | 16    | 8        | 8        | 0°    |

12 mm x 14 mm

14 mm x 16 mm



TRISTAN® Titanium (non-sterile)



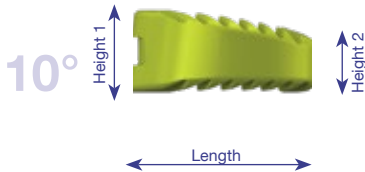
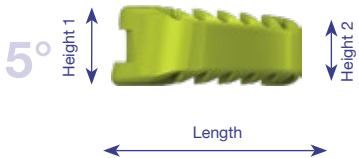
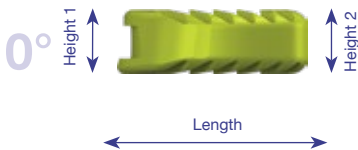
| Item no.   | Name                  | Length | Width | Height 1 | Height 2 | Angle |
|------------|-----------------------|--------|-------|----------|----------|-------|
| 1501040304 | Tristan Ti 12x14x4    | 12     | 14    | 6        | 4        | 10°   |
| 1501040305 | Tristan Ti 12x14x5    | 12     | 14    | 7        | 5        | 10°   |
| 1501040306 | Tristan Ti 12x14x6    | 12     | 14    | 8        | 6        | 10°   |
| 1501040307 | Tristan Ti 12x14x7    | 12     | 14    | 9        | 7        | 10°   |
| 1501040308 | Tristan Ti 12x14x8    | 12     | 14    | 10       | 8        | 10°   |
| 1501050304 | Tristan Ti 14x16x4    | 14     | 16    | 6        | 4        | 10°   |
| 1501050305 | Tristan Ti 14x16x5    | 14     | 16    | 7        | 5        | 10°   |
| 1501050306 | Tristan Ti 14x16x6    | 14     | 16    | 8        | 6        | 10°   |
| 1501050307 | Tristan Ti 14x16x7    | 14     | 16    | 9        | 7        | 10°   |
| 1501050308 | Tristan Ti 14x16x8    | 14     | 16    | 10       | 8        | 10°   |
| 1502071204 | Tristan Ti 12x14x4 5° | 12     | 14    | 5        | 4        | 5°    |
| 1502071205 | Tristan Ti 12x14x5 5° | 12     | 14    | 6        | 5        | 5°    |
| 1502071206 | Tristan Ti 12x14x6 5° | 12     | 14    | 7        | 6        | 5°    |
| 1502071207 | Tristan Ti 12x14x7 5° | 12     | 14    | 8        | 7        | 5°    |
| 1502071208 | Tristan Ti 12x14x8 5° | 12     | 14    | 9        | 8        | 5°    |
| 1502071404 | Tristan Ti 14x16x4 5° | 14     | 16    | 5        | 4        | 5°    |
| 1502071405 | Tristan Ti 14x16x5 5° | 14     | 16    | 6        | 5        | 5°    |
| 1502071406 | Tristan Ti 14x16x6 5° | 14     | 16    | 7        | 6        | 5°    |
| 1502071407 | Tristan Ti 14x16x7 5° | 14     | 16    | 8        | 7        | 5°    |
| 1502071408 | Tristan Ti 14x16x8 5° | 14     | 16    | 9        | 8        | 5°    |

| Item no.   | Name                  | Length | Width | Height 1 | Height 2 | Angle |
|------------|-----------------------|--------|-------|----------|----------|-------|
| 1502081204 | Tristan Ti 12x14x4 0° | 12     | 14    | 4        | 4        | 0°    |
| 1502081205 | Tristan Ti 12x14x5 0° | 12     | 14    | 5        | 5        | 0°    |
| 1502081206 | Tristan Ti 12x14x6 0° | 12     | 14    | 6        | 6        | 0°    |
| 1502081207 | Tristan Ti 12x14x7 0° | 12     | 14    | 7        | 7        | 0°    |
| 1502081208 | Tristan Ti 12x14x8 0° | 12     | 14    | 8        | 8        | 0°    |
| 1502081404 | Tristan Ti 14x16x4 0° | 14     | 16    | 4        | 4        | 0°    |
| 1502081405 | Tristan Ti 14x16x5 0° | 14     | 16    | 5        | 5        | 0°    |
| 1502081406 | Tristan Ti 14x16x6 0° | 14     | 16    | 6        | 6        | 0°    |
| 1502081407 | Tristan Ti 14x16x7 0° | 14     | 16    | 7        | 7        | 0°    |
| 1502081408 | Tristan Ti 14x16x8 0° | 14     | 16    | 8        | 8        | 0°    |

12 mm x 14 mm



14 mm x 16 mm



# TRISTAN® PEEK-S

STERILE



## Implants

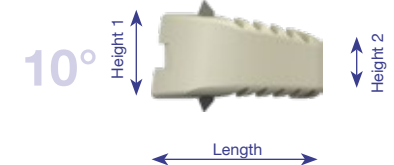
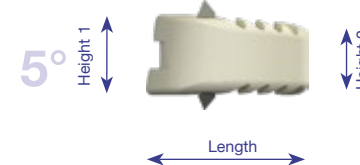
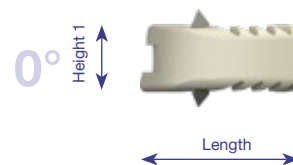
| Item no.   | Name                         | Length | Width | Height 1 | Height 2 | Angle |
|------------|------------------------------|--------|-------|----------|----------|-------|
| 1501060404 | Tristan PEEK - S 12x14x4 10° | 12     | 14    | 6        | 4        | 10°   |
| 1501060405 | Tristan PEEK - S 12x14x5 10° | 12     | 14    | 7        | 5        | 10°   |
| 1501060406 | Tristan PEEK - S 12x14x6 10° | 12     | 14    | 8        | 6        | 10°   |
| 1501060407 | Tristan PEEK - S 12x14x7 10° | 12     | 14    | 9        | 7        | 10°   |
| 1501060408 | Tristan PEEK - S 12x14x8 10° | 12     | 14    | 10       | 8        | 10°   |
| 1501070404 | Tristan PEEK - S 14x16x4 10° | 14     | 16    | 6        | 4        | 10°   |
| 1501070405 | Tristan PEEK - S 14x16x5 10° | 14     | 16    | 7        | 5        | 10°   |
| 1501070406 | Tristan PEEK - S 14x16x6 10° | 14     | 16    | 8        | 6        | 10°   |
| 1501070407 | Tristan PEEK - S 14x16x7 10° | 14     | 16    | 9        | 7        | 10°   |
| 1501070408 | Tristan PEEK - S 14x16x8 10° | 14     | 16    | 10       | 8        | 10°   |
| 1502091304 | Tristan PEEK - S 12x14x4 5°  | 12     | 14    | 5        | 4        | 5°    |
| 1502091305 | Tristan PEEK - S 12x14x5 5°  | 12     | 14    | 6        | 5        | 5°    |
| 1502091306 | Tristan PEEK - S 12x14x6 5°  | 12     | 14    | 7        | 6        | 5°    |
| 1502091307 | Tristan PEEK - S 12x14x7 5°  | 12     | 14    | 8        | 7        | 5°    |
| 1502091308 | Tristan PEEK - S 12x14x8 5°  | 12     | 14    | 9        | 8        | 5°    |
| 1502091504 | Tristan PEEK - S 14x16x4 5°  | 14     | 16    | 5        | 4        | 5°    |
| 1502091505 | Tristan PEEK - S 14x16x5 5°  | 14     | 16    | 6        | 5        | 5°    |
| 1502091506 | Tristan PEEK - S 14x16x6 5°  | 14     | 16    | 7        | 6        | 5°    |
| 1502091507 | Tristan PEEK - S 14x16x7 5°  | 14     | 16    | 8        | 7        | 5°    |
| 1502091508 | Tristan PEEK - S 14x16x8 5°  | 14     | 16    | 9        | 8        | 5°    |

| Item no.   | Name                        | Length | Width | Height 1 | Height 2 | Angle |
|------------|-----------------------------|--------|-------|----------|----------|-------|
| 1502101304 | Tristan PEEK - S 12x14x4 0° | 12     | 14    | 4        | 4        | 0°    |
| 1502101305 | Tristan PEEK - S 12x14x5 0° | 12     | 14    | 5        | 5        | 0°    |
| 1502101306 | Tristan PEEK - S 12x14x6 0° | 12     | 14    | 6        | 6        | 0°    |
| 1502101307 | Tristan PEEK - S 12x14x7 0° | 12     | 14    | 7        | 7        | 0°    |
| 1502101308 | Tristan PEEK - S 12x14x8 0° | 12     | 14    | 8        | 8        | 0°    |
| 1502101504 | Tristan PEEK - S 14x16x4 0° | 14     | 16    | 4        | 4        | 0°    |
| 1502101505 | Tristan PEEK - S 14x16x5 0° | 14     | 16    | 5        | 5        | 0°    |
| 1502101506 | Tristan PEEK - S 14x16x6 0° | 14     | 16    | 6        | 6        | 0°    |
| 1502101507 | Tristan PEEK - S 14x16x7 0° | 14     | 16    | 7        | 7        | 0°    |
| 1502101508 | Tristan PEEK - S 14x16x8 0° | 14     | 16    | 8        | 8        | 0°    |

12 mm x 14 mm



14 mm x 16 mm



# TRISTAN® R-PEEK-Ti (Peek with titanium coating)



STERILE

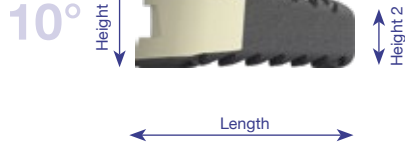
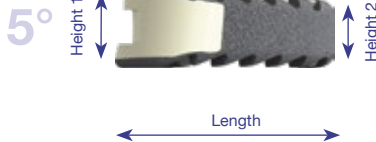
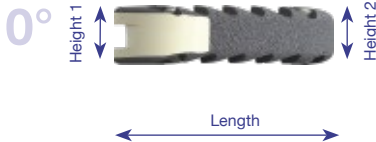
| Item no.   | Name                                 | Length | Width | Height 1 | Height 2 | Angle |
|------------|--------------------------------------|--------|-------|----------|----------|-------|
| 1502131204 | Tristan R-PEEK-Ti Coated 12x14x4 10° | 12     | 14    | 6        | 4        | 10°   |
| 1502131205 | Tristan R-PEEK-Ti Coated 12x14x5 10° | 12     | 14    | 7        | 5        | 10°   |
| 1502131206 | Tristan R-PEEK-Ti Coated 12x14x6 10° | 12     | 14    | 8        | 6        | 10°   |
| 1502131207 | Tristan R-PEEK-Ti Coated 12x14x7 10° | 12     | 14    | 9        | 7        | 10°   |
| 1502131208 | Tristan R-PEEK-Ti Coated 12x14x8 10° | 12     | 14    | 10       | 8        | 10°   |
| 1502131404 | Tristan R-PEEK-Ti Coated 14x16x4 10° | 14     | 16    | 6        | 4        | 10°   |
| 1502131405 | Tristan R-PEEK-Ti Coated 14x16x5 10° | 14     | 16    | 7        | 5        | 10°   |
| 1502131406 | Tristan R-PEEK-Ti Coated 14x16x6 10° | 14     | 16    | 8        | 6        | 10°   |
| 1502131407 | Tristan R-PEEK-Ti Coated 14x16x7 10° | 14     | 16    | 9        | 7        | 10°   |
| 1502131408 | Tristan R-PEEK-Ti Coated 14x16x8 10° | 14     | 16    | 10       | 8        | 10°   |
| 1502151204 | Tristan R-PEEK-Ti Coated 12x14x4 5°  | 12     | 14    | 5        | 4        | 5°    |
| 1502151205 | Tristan R-PEEK-Ti Coated 12x14x5 5°  | 12     | 14    | 6        | 5        | 5°    |
| 1502151206 | Tristan R-PEEK-Ti Coated 12x14x6 5°  | 12     | 14    | 7        | 6        | 5°    |
| 1502151207 | Tristan R-PEEK-Ti Coated 12x14x7 5°  | 12     | 14    | 8        | 7        | 5°    |
| 1502151208 | Tristan R-PEEK-Ti Coated 12x14x8 5°  | 12     | 14    | 9        | 8        | 5°    |
| 1502151404 | Tristan R-PEEK-Ti Coated 14x16x4 5°  | 14     | 16    | 5        | 4        | 5°    |
| 1502151405 | Tristan R-PEEK-Ti Coated 14x16x5 5°  | 14     | 16    | 6        | 5        | 5°    |
| 1502151406 | Tristan R-PEEK-Ti Coated 14x16x6 5°  | 14     | 16    | 7        | 6        | 5°    |
| 1502151407 | Tristan R-PEEK-Ti Coated 14x16x7 5°  | 14     | 16    | 8        | 7        | 5°    |
| 1502151408 | Tristan R-PEEK-Ti Coated 14x16x8 5°  | 14     | 16    | 9        | 8        | 5°    |

| Item no.   | Name                                | Length | Width | Height 1 | Height 2 | Angle |
|------------|-------------------------------------|--------|-------|----------|----------|-------|
| 1502141204 | Tristan R-PEEK-Ti Coated 12x14x4 0° | 12     | 14    | 4        | 4        | 0°    |
| 1502141205 | Tristan R-PEEK-Ti Coated 12x14x5 0° | 12     | 14    | 5        | 5        | 0°    |
| 1502141206 | Tristan R-PEEK-Ti Coated 12x14x6 0° | 12     | 14    | 6        | 6        | 0°    |
| 1502141207 | Tristan R-PEEK-Ti Coated 12x14x7 0° | 12     | 14    | 7        | 7        | 0°    |
| 1502141208 | Tristan R-PEEK-Ti Coated 12x14x8 0° | 12     | 14    | 8        | 8        | 0°    |
| 1502141404 | Tristan R-PEEK-Ti Coated 14x16x4 0° | 14     | 16    | 4        | 4        | 0°    |
| 1502141405 | Tristan R-PEEK-Ti Coated 14x16x5 0° | 14     | 16    | 5        | 5        | 0°    |
| 1502141406 | Tristan R-PEEK-Ti Coated 14x16x6 0° | 14     | 16    | 6        | 6        | 0°    |
| 1502141407 | Tristan R-PEEK-Ti Coated 14x16x7 0° | 14     | 16    | 7        | 7        | 0°    |
| 1502141408 | Tristan R-PEEK-Ti Coated 14x16x8 0° | 14     | 16    | 8        | 8        | 0°    |

12 mm x 14 mm



14 mm x 16 mm





## TRISTAN Trials



### Instruments

10°








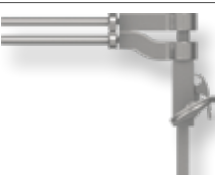



5°

0°

| Item no.   | Name                      |
|------------|---------------------------|
| 1502010038 | TRISTAN Trial 12x14x4 10° |
| 1502010039 | TRISTAN Trial 12x14x5 10° |
| 1502010040 | TRISTAN Trial 12x14x6 10° |
| 1502010041 | TRISTAN Trial 12x14x7 10° |
| 1502010042 | TRISTAN Trial 12x14x8 10° |
| 1502010043 | TRISTAN Trial 14x16x4 10° |
| 1502010044 | TRISTAN Trial 14x16x5 10° |
| 1502010045 | TRISTAN Trial 14x16x6 10° |
| 1502010046 | TRISTAN Trial 14x16x7 10° |
| 1502010047 | TRISTAN Trial 14x16x8 10° |
| 1502010017 | TRISTAN Trial 12x14x4 5°  |
| 1502010018 | TRISTAN Trial 12x14x5 5°  |
| 1502010019 | TRISTAN Trial 12x14x6 5°  |
| 1502010020 | TRISTAN Trial 12x14x7 5°  |
| 1502010021 | TRISTAN Trial 12x14x8 5°  |
| 1502010027 | TRISTAN Trial 14x16x4 5°  |
| 1502010028 | TRISTAN Trial 14x16x5 5°  |
| 1502010029 | TRISTAN Trial 14x16x6 5°  |
| 1502010030 | TRISTAN Trial 14x16x7 5°  |
| 1502010031 | TRISTAN Trial 14x16x8 5°  |

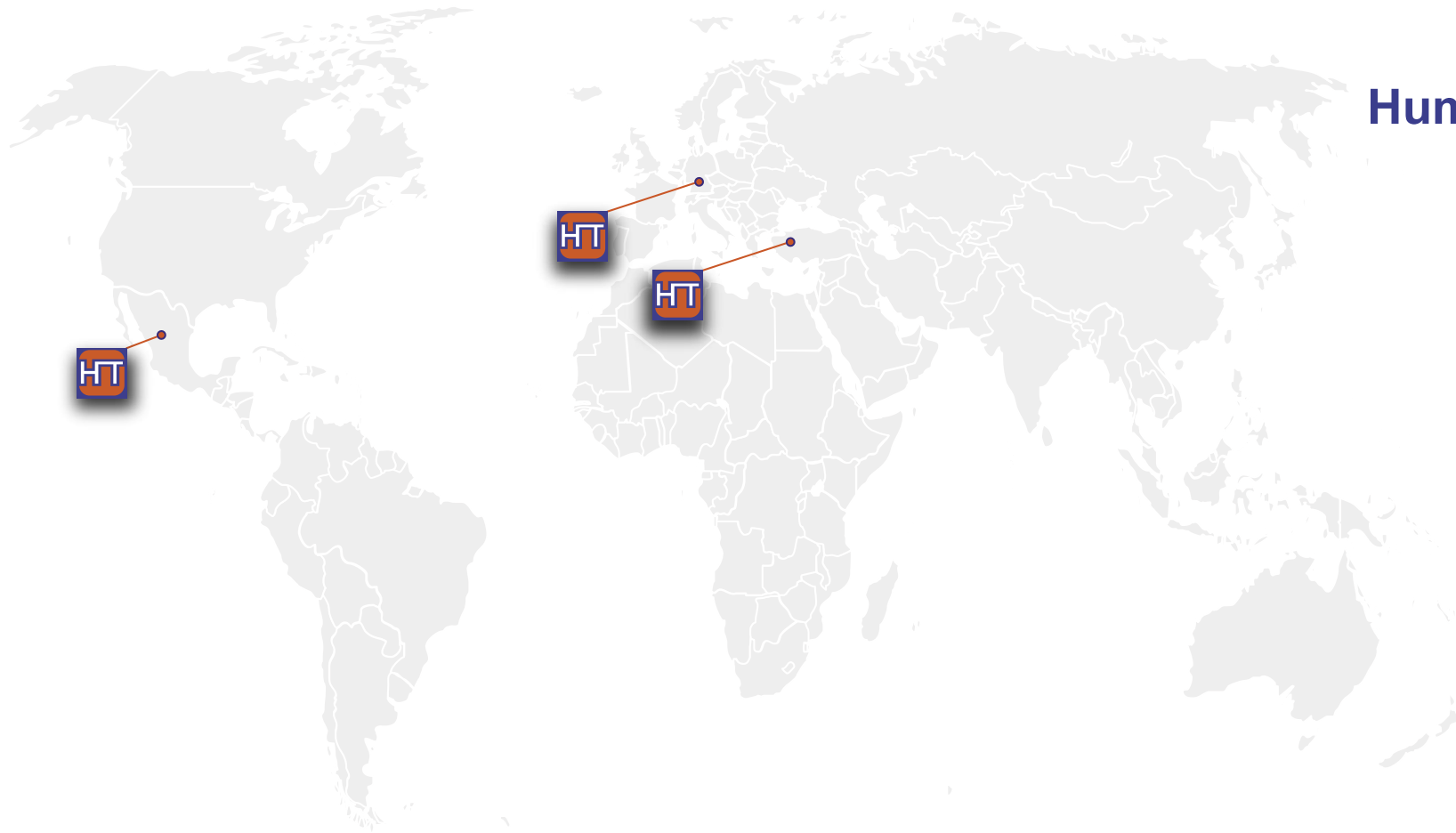
| Item no.   | Name                     |
|------------|--------------------------|
| 1502010022 | TRISTAN Trial 12x14x4 0° |
| 1502010023 | TRISTAN Trial 12x14x5 0° |
| 1502010024 | TRISTAN Trial 12x14x6 0° |
| 1502010025 | TRISTAN Trial 12x14x7 0° |
| 1502010026 | TRISTAN Trial 12x14x8 0° |
| 1502010032 | TRISTAN Trial 14x16x4 0° |
| 1502010033 | TRISTAN Trial 14x16x5 0° |
| 1502010034 | TRISTAN Trial 14x16x6 0° |
| 1502010035 | TRISTAN Trial 14x16x7 0° |
| 1502010036 | TRISTAN Trial 14x16x8 0° |



| Item no.     | Description                  | Illustration  |
|--------------|------------------------------|---|
| 1501010001   | Cage Inserter                |                                 |
| 1501010002   | Cage Inserter with stop      |                                 |
| 1501010001B  | Tristan Inserter B           |                                 |
| 1501010011   | Pindriver                    |                                 |
| 1501010022   | Distraction Pin 14mm         | -Single use only-<br>           |
| 1501010023   | Distraction Pin 16mm         | -Single use only-<br>           |
| 1501010024   | Distraction Pin 18mm         | -Single use only-<br>           |
| 1501010010   | Retrieval Body Retractor     |                                |
| 1501010022-S | Distraction Pin 14mm sterile | STERILE -Single use only-<br> |
| 1501010023-S | Distraction Pin 16mm sterile | STERILE -Single use only-<br> |
| 1501010024-S | Distraction Pin 18mm sterile | STERILE -Single use only-<br> |

available soon





HumanTech  
Spine



## Manufacturing and Sales Europe

HumanTech Spine GmbH

Gewerbestr. 5  
D-71144 Steinenbronn

Germany

Phone: +49 (0) 7157/5246-71  
Fax: +49 (0) 7157/5246-66  
sales@humantech-spine.de  
www.humantech-spine.de

## Sales Middle East

HumanTech Med. Sag. Tic. Ltd.

İkitelli OSB Tümsan 2. Kısım  
C-Blok No: 47  
TR-34306 Başakşehir İstanbul

Turkey

Phone: +90 (0) 212/485 6675  
Fax: +90 (0) 212/485 6674  
info@humantech.com.tr  
www.humantech-spine.de

## Sales Latin America

HumanTech Mexico, S. DE R.L. DE C.V.

Rio Mixcoac No. 212-3  
Acacias del Valle  
Del. Benito Juárez  
C.P. 03240 Mexico, D.F.  
Mexico

Phone: +52 (0) 55/5534 5645  
Fax: +52 (0) 55/5534 4929  
info@humantech-solutions.mx  
www.humantech-spine.de

