

Surgical Technique Guide

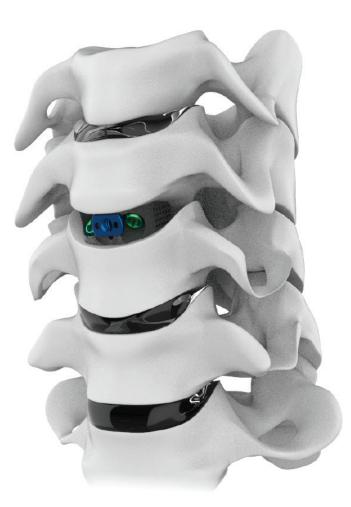


# **ZimVie**

ZimVie CERVICAL SOLUTIONS

## TrellOss-C SA Porous Ti Interbody System

The TrellOss-C SA Porous Ti Interbody System is a standalone anterior cervical interbody fusion system intended for use at one or two contiguous levels.



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ZimVie Spine does not practice medicine. This technique was developed in conjunction with health care professionals. This document is intended for surgeons and is not intended for laypersons. Each surgeon should exercise his or her own independent judgment in the diagnosis and treatment of an individual patient, and this information does not purport to replace the comprehensive training surgeons have received. As with all surgical procedures, the technique used in each case will depend on the surgeon's medical judgment as the best treatment for each patient. Results will vary based on health, weight, activity and other variables. Not all patients are candidates for this product and/or procedure.

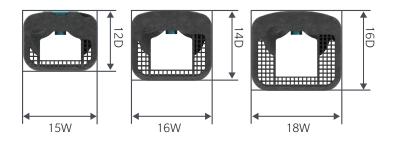
## Trelloss-C SA Porous Ti Interbody System Overview

TrellOss-C SA Porous Ti Interbody System possesses combined functionality and benefits of a cervical interbody and an anterior cervical plate. The implant is contained within the region of the excised disc space and is designed to not protrude past the mid-line edge of the vertebral bodies, reducing the amount of soft tissue damage or irritation. TrellOss-C SA implants are sterile packaged and comprised of various heights and footprints to accommodate individual patient anatomy.

#### Interbody

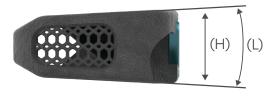
- 3D printed porous titanium alloy (Ti-6Al-4V ELI per ASTM F3001) material, integrated with TrellOss technology.
- Roughened surface provides initial stabilization.
- Integrated one-step turn lock (Ti-6Al-4V ELI per ASTM F136).
- Built-in 6° lordotic angle to accommodate anatomy of cervical spine.

Footprint



Lordosis (L) + Height (H) Options

(L): 6° (H): 5, 6, 7, 8, 9, 10, 11, and 12 mm





Implants in heights 5-6 mm utilize a Z-shape locking cover.

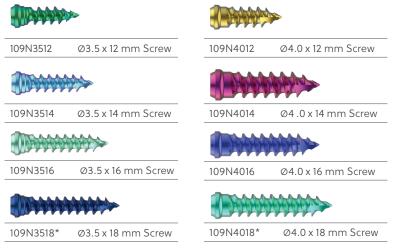


Implants in heights 7-12 mm utilize a rectangular locking cover.

#### Screws

- Titanium alloy (Ti-6Al-4V ELI per ASTM F136) screws provide fixation to the adjacent superior and inferior vertebral bodies.
- Screws are designed as self- tapping and variable angle.
- Screw lengths are measured from the anterior to posterior of the footprint.
- Self-retaining T10 hexalobe feature.
- Cephalad/Caudal angulation: 40°.
- Medial/Lateral angulation: 12.5°.

Screws are color-coded by length and diameter





Cephalad / Caudal Angulation

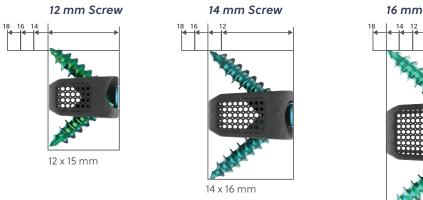




\*By Request Only

Constructs are designed to match screw depth with interbody depth. If utilizing a different screw length or diameter, proceed at surgeon's discretion.

- 12 mm for the 12 x 15 mm footprint
- 14 mm for the 14 x 16 mm footprint
- 16 mm for the 16 x 18 mm footprint

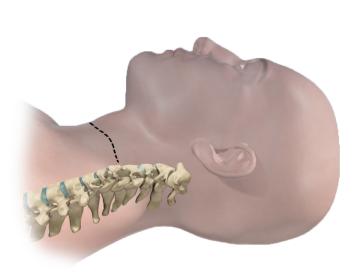


**Note:** The standard screw lengths above are recommended as each terminate with the posterior edge of their respective implant.



16 x 18 mm

## Surgical Approach



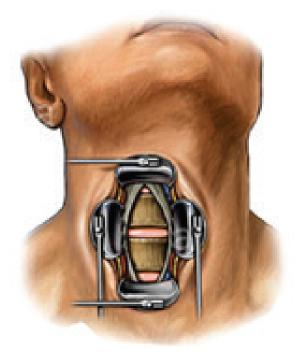


Figure 1

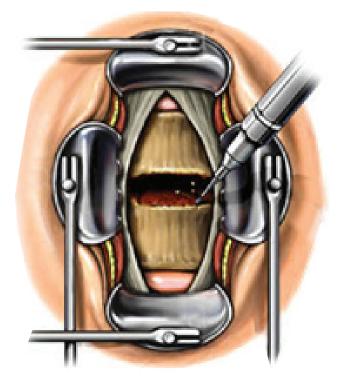
Figure 2

## **Patient Positioning**

 Following adequate general anesthesia, the patient is placed in the supine position with the head in slight extension (Figure 1). The mandible is tilted out of the surgical field. The posterior cervical spine is supported to establish and maintain normal lordosis. Exposure of Operative Level(s)

• Access the operative site and retract the tissues using preferred instruments. Retract the muscles, trachea, esophagus and carotid artery to clearly see the vertebral bodies and discs (Figure 2). Insert a marker into the disc and confirm the correct operative level using a lateral radiograph.

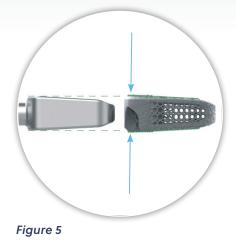
**Note:** TrellOss-C SA is indicated for use at up to two contiguous levels in the cervical spine from C2-T1.



#### **Discectomy**

 Perform a complete discectomy using preferred surgical instruments. Pituitaries, curettes, and rongeurs may be used to remove the disc material and cartilage to expose the posterior longitudinal ligament and endplates. A high-speed burr may be used for removal of posterior osteophytes to achieve neural decompression (Figure 3). The posterior longitudinal ligament may be removed to access and remove any disc material that may be pressing on the neural elements.

**Note:** Adequate preparation of the endplates is critical in facilitating vascular supply to promote fusion.







#### Figure 6

## **Endplate Preparation**

A 12 x 14 x 5 mm universal cervical rasp is included standard in the surgical set to remove the superficial layer on the endplates (Figure 4). This will aid in creating bleeding bone to promote spinal fusion. Appropriate endplate preparation will optimize surface contact with the selected interbody. Additional rasp sizes are available upon request.

Warning: Excessive removal of bone during endplate preparation may weaken the bone, leading to subsidence and/or segmental instability.

## Trialing

Selection of interbody height and footprint is dependent on the trial spacer. A mallet may be used to aid in insertion of the trials. Trials should be used incrementally to determine the appropriate dimensions of the interbody to be implanted.

#### Notes:

- All labeled heights are measured from the area representing the highest point on the anterior wall of the implant (Figure 5).
- The trials are color coded according to the height of the implant. Trials are line to line with the corresponding implant (Figure 6).

## Implant Insertion – Guide Head Method

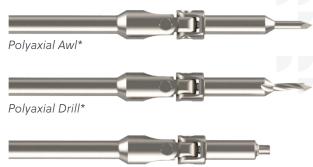
(For Free Hand Method Implant Insertion proceed to page 13)

# Straight Awl\* Straight Drill\* Straight Hex Driver

Straight Screw Remover

Straight Instruments:

## **Polyaxial Instruments:**



Polyaxial Hex Driver\*



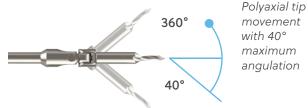
Figure 7 Straight Drill shown \*Positive stop with guide head

#### Notes:

- The straight awl, straight drill, and straight hex driver work with and without the guide head.
- Drill and awl lengths match the shortest implant depth, 12 mm.
- Awl and drill diameters are Ø2.0 mm.



Figure 8 Polyaxial Drill shown \*Positive stop with guide head



Note: The polyaxial awl, polyaxial drill, polyaxial hex driver, and polyaxial screw remover should only be used with the guide head.



## Implant Insertion – Guide Head Method (continued)



Figure 9

## **Interbody Attachment**

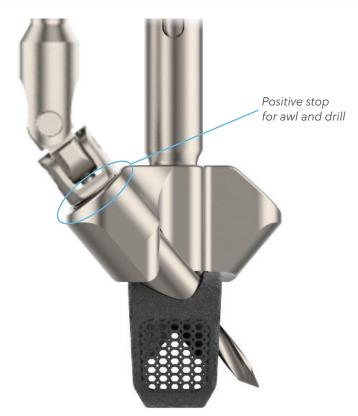
- Select the appropriate interbody size determined by trialing and remove from sterile packaging.
- Connect the modular inserter shaft to the appropriate guide head via the integrated press-and-retain feature (Figure 9a) and align the guide head pins with the corresponding interbody footprint (Figure 9b).
- Rotate the knob on the modular inserter shaft clockwise until the thread bottoms out in the interbody (Figure 9c).

**Note:** Each guide head height has a 1:1 precise interbody match for every footprint available. For example, the 5 mm guide head mates with all footprints of 5 mm interbodies; 12 x 15, 14 x 16, and 16 x 18 mm.

## **Interbody Packing and Insertion**

 Pack the center cavity of the interbody with autograft and/or allograft comprised of cancellous and/or corticocancellous bone graft. Introduce the interbody into the disc space, mallet when necessary. Interbodies have been designed to have symmetric superior/inferior surfaces relative to the vertebral endplates. Verify placement of the interbody in the A/P and lateral direction before continuing the procedure.

**Note:** Do not overpack the interbody with autograft and/or allograft to ensure the interbody screw pockets remain unobstructed.



## **Hole Preparation**

 Use either the awl or drill (straight, or polyaxial) to penetrate the cortex of the endplate through the guide head and interbody pocket. Guide head method instruments outlined on pages 9 and 10 will encounter a physical stop on the face of the guide head to ensure the instrument tips do not protrude beyond the intended depth (Figure 10).

## Implant Insertion – Guide Head Method (continued)





a. Align





b. Mate

c. Turn 90° clockwise to lock

Figure 12

**Screw Insertion** 

- Press the hex driver (straight or polyaxial) tip into the female drive feature of the screw in order to retain the screw onto the screw inserter. Guide the attached screw into the barrel of the guide head, then thread the screw into the pilot hole until fully seated. Verify screw placement and angulation via intraoperative imaging.
- Repeat the above steps for implanting the second screw. Upon finalizing screw placement, disengage the modular inserter and guide head by turning the proximal knob counterclockwise.

#### Notes:

- If the turn lock does not rotate the full 90° range, ensure debris is clear of the turn lock path and that the screw is bottomed out into the interbody.
- Screws are color-coded by length and diameter.

## **Construct Locking**

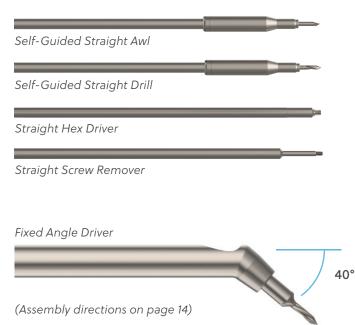
- Align the center tip of the turn lock tool with the center hole on the interbody (Figure 12a).
- Mate the pins into the superior and inferior holes (Figure 12b).
- Turn lock tool 90° clockwise. The integrated turn lock will encounter a positive stop with the interbody confirming it has reached the locked position (Figure 12c).

## Implant Insertion – Free Hand Method

(For Guide Head Method Implant Insertion see to page 9)

ZimVie Spine strongly advises utilizing the guide head method for optimal alignment of screws in the interbody. In the event a free hand method (implantation of the interbody without the use of a guide head) is performed, the following technique is recommended for best screw placement.

#### Self-Guided Straight Instruments:



#### Self-Guided Polyaxial Instruments:



## Notes:

- Utilize the short tips when using the non-guided free hand method.
- Utilize the long tips when using the self-guided free hand method.



## Implant Insertion – Free Hand Method (continued)

#### **Fixed Angle Driver**

The fixed angle driver comes unassembled. It is a modular device with several tip options. Selfguided and non-guided awl, drill, hex driver, and screw removal tips come standard in the fixed angle driver tip caddy.

OuterShaft

shat

#### To Assemble:

- 1. Insert desired tip into outer shaft.
- 2. Insert inner shaft through the top of the outer shaft and turn knob clockwise to tighten.

#### Distal Tip

While assembling, keep the distal tip of the outer shaft pointed down to ensure the tip does not fall out.



Optional Fixed Angle Driver Attachment is available for additional stability.

Final Assembly

There is no gap between the knob and the outer shaft when fully engaged. If there is a visible gap between the inner shaft and outer shaft, rotate the knob counter clockwise, toggle, and rotate clockwise

to fully thread in.



## **Interbody Attachment**

Select the appropriate interbody size determined by trialing and remove from sterile packaging.

- Dock the fixed interbody Inserter to the chosen interbody (Figure 13a).
- Rotate the proximal knob of the fixed interbody inserter clockwise until the thread bottoms out in the interbody (Figure 13b).

**Note:** Do not overpack the interbody with autograft and/or allograft to ensure the interbody screw pockets remain unobstructed.

## **Interbody Packing and Insertion**

 Pack the center cavity of the interbody with autograft and/or allograft comprised of cancellous and/or corticocancellous bone graft. Introduce the interbody into the disc space, mallet when necessary. Interbodies have been designed to have symmetric superior/inferior surfaces relative to the vertebral endplates. Verify placement of the interbody in the A/P and lateral direction before continuing the procedure.

## Implant Insertion – Free Hand Method (continued)

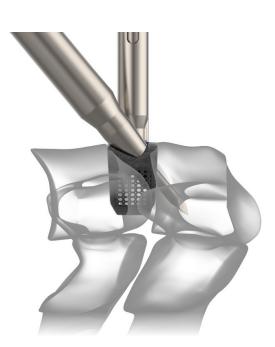


Figure 14

**Hole Preparation** 

(Figure 14).

16

• Use either self-guided straight or polyaxial instrumentation or the fixed angle driver

with either an awl or drill tip to penetrate

the cortex through the interbody pocket



Figure 15

## Screw Insertion

- Screws are color-coded by length and diameter. Press the hex driver (straight or polyaxial self-guided or fixed angle tip) into the female drive feature of the screw in order to retain the screw onto the screw inserter. Guide the attached screw into the pilot hole and thread until fully seated. Ensure screw is concentrically centered in screw pocket and aligned correctly. Verify screw placement and angulation via intraoperative imaging (Figure 15).
- Repeat the above steps for implanting the second screw. Upon finalizing screw placement, disengage the fixed interbody inserter by turning the proximal knob counterclockwise.

TrellOss<sup>™</sup>-C SA Porous Ti Interbody System – Surgical Technique Guide



a. Align



b. Mate



c. Turn 90° clockwise to lock

## **Construct Locking**

- Align the center tip of the turn lock tool with the center hole on the interbody (Figure 16a).
- Mate the pins into the superior and inferior holes (Figure 16b).
- Turn lock tool 90° clockwise. The integrated turn lock will encounter a positive stop with the interbody confirming it has reached the locked position (Figure 16c).

**Note:** If the turn lock does not rotate the full 90° range, ensure debris is clear of the turn lock path and that the screw is bottomed out into the interbody.

## Implant Removal

#### Screw Removal:

To remove the screws from the interbody, follow the outlined steps.







3. Remove lock tool

1. Align and turn 90° counterclockwise to unlock

2. Unlocked

4. Thread screw removal tool counterclockwise into screw head

5. Continue to rotate counterclockwise while pulling out screw to explant

#### Interbody Removal:

Remove any debris from the center hole on the interbody.



## Kit Contents

#### TrellOss-C SA Instrument Kit Kit Number: PCR100N8100

| DESCRIPTION                             | QTY | PART NUMBER |
|---|-----|-------------|
| Fixed Angle Tip Awl, Self-guided        | 1   | 138N4038    |
| Fixed Angle Tip Drill, Self-guided      | 1   | 138N4039    |
| Straight Drill, Self-guided             | 1   | 138N4040    |
| Straight Awl, Self-guided               | 1   | 138N4041    |
| Polyaxial Angle Hex Driver, Self-guided | 1   | 138N4042    |
| Polyaxial Angle Drill, Self-guided      | 1   | 138N4043    |
| Polyaxial Angle Awl, Self-guided        | 1   | 138N4044    |
| Cervical Tamp                           | 1   | 130N3003    |
| Trial, 12 mm x 15 mm x 5 mm, 6°         | 1   | 135N1205    |
| Trial, 12 mm x 15 mm x 6 mm, 6°         | 1   | 135N1206    |
| Trial, 12 mm x 15 mm x 7 mm, 6°         | 1   | 135N1207    |
| Trial, 12 mm x 15 mm x 8 mm, 6°         | 1   | 135N1208    |
| Trial, 12 mm x 15 mm x 9 mm, 6°         | 1   | 135N1209    |
| Trial, 12 mm x 15 mm x 10 mm, 6°        | 1   | 135N1210    |
| Trial, 12 mm x 15 mm x 11 mm, 6°        | 1   | 135N1211    |
| Trial, 12 mm x 15 mm x 12 mm, 6°        | 1   | 135N1212    |
| Trial, 14 mm x 16 mm x 5 mm, 6°         | 1   | 135N1405    |
| Trial, 14 mm x 16 mm x 6 mm, 6°         | 1   | 135N1406    |
| Trial, 14 mm x 16 mm x 7 mm, 6°         | 1   | 135N1407    |
| Trial, 14 mm x 16 mm x 8 mm, 6°         | 1   | 135N1408    |
| Trial, 14 mm x 16 mm x 9 mm, 6°         | 1   | 135N1409    |
| Trial, 14 mm x 16 mm x 10 mm, 6°        | 1   | 135N1410    |
| Trial, 14 mm x 16 mm x 11 mm, 6°        | 1   | 135N1411    |
| Trial, 14 mm x 16 mm x 12 mm, 6°        | 1   | 135N1412    |
| Trial, 16 mm x 18 mm x 5 mm, 6°         | 1   | 135N1605    |
| Trial, 16 mm x 18 mm x 6 mm, 6°         | 1   | 135N1606    |
| Trial, 16 mm x 18 mm x 7 mm, 6°         | 1   | 135N1607    |
| Trial, 16 mm x 18 mm x 8 mm, 6°         | 1   | 135N1608    |
| Trial, 16 mm x 18 mm x 9 mm, 6°         | 1   | 135N1609    |
| Trial, 16 mm x 18 mm x 10 mm, 6°        | 1   | 135N1610    |
| Trial, 16 mm x 18 mm x 11 mm, 6°        | 1   | 135N1611    |
| Trial, 16 mm x 18 mm x 12 mm, 6°        | 1   | 135N1612    |
| Guide Head 5 mm                         | 1   | 137N1205    |
| Guide Head 6 mm                         | 1   | 137N1206    |
| Guide Head 7 mm                         | 1   | 137N1207    |
| Guide Head 8 mm                         | 1   | 137N1208    |
| Guide Head 9 mm                         | 1   | 137N1209    |
| Guide Head 10 mm                        | 1   | 137N1210    |
| Guide Head 11 mm                        | 1   | 137N1211    |
| Guide Head 12 mm                        | 1   | 137N1212    |

| DESCRIPTION                   | QTY | PART NUMBER |
|-------------------------------|-----|-------------|
| Fixed AO Handle               | 2   | 138N4001    |
| Universal Rasp                | 1   | 138N4002    |
| Fixed Interbody Inserter      | 1   | 138N4003    |
| Guide Interbody Inserter      | 2   | 138N4004    |
| Fixed Angle Tip Awl, Short    | 1   | 138N4009    |
| Fixed Angle Tip Drill, Short  | 1   | 138N4011    |
| Fixed Angle Tip Driver, Short | 1   | 138N4013    |
| Fixed Angle Driver Outer      | 2   | 138N4015    |
| Fixed Angle Driver Shaft      | 2   | 138N4016    |
| Fixed Angle Driver Handle     | 2   | 138N4017    |
| Lock Tool                     | 1   | 138N4020    |
| Straight Awl                  | 1   | 138N4021    |
| Straight Drill                | 1   | 138N4022    |
| Straight Hex Driver           | 2   | 138N4023    |
| Straight Screw Remover        | 1   | 138N4024    |
| Polyaxial Awl                 | 1   | 138N4031    |
| Polyaxial Drill               | 1   | 138N4032    |
| Polyaxial Hex Driver          | 1   | 138N4033    |

#### TrellOss-C SA Standard Implant Kit Kit Number: PCR100N6100

| DESCRIPTION, D x W x H             | QTY | PART NUMBER |
|------------------------------------|-----|-------------|
| Implant, 12 mm x 15 mm x 5 mm, 6°  | 3   | 108N1205    |
| Implant, 12 mm x 15 mm x 6 mm, 6°  | 3   | 108N1206    |
| Implant, 12 mm x 15 mm x 7 mm, 6°  | 3   | 108N1207    |
| Implant, 12 mm x 15 mm x 8 mm, 6°  | 3   | 108N1208    |
| Implant, 12 mm x 15 mm x 9 mm, 6°  | 2   | 108N1209    |
| Implant, 12 mm x 15 mm x 10 mm, 6° | 2   | 108N1210    |
| Implant, 14 mm x 16 mm x 5 mm, 6°  | 3   | 108N1405    |
| Implant, 14 mm x 16 mm x 6 mm, 6°  | 3   | 108N1406    |
| Implant, 14 mm x 16 mm x 7 mm, 6°  | 3   | 108N1407    |
| Implant, 14 mm x 16 mm x 8 mm, 6°  | 3   | 108N1408    |
| Implant, 14 mm x 16 mm x 9 mm, 6°  | 2   | 108N1409    |
| Implant, 14 mm x 16 mm x 10 mm, 6° | 2   | 108N1410    |
| Screw, ø3.5 mm x 12 mm             | 6   | 109N3512    |
| Screw, ø3.5 mm x 14 mm             | 6   | 109N3514    |
| Screw, ø3.5 mm x 16 mm             | 6   | 109N3516    |
| Screw, ø4.0 mm x 12 mm             | 6   | 109N4012    |
| Screw, ø4.0 mm x 14 mm             | 6   | 109N4014    |
| Screw, ø4.0 mm x 16 mm             | 6   | 109N4016    |

### TrellOss-C SA X-Large Implant Kit Kit Number: PCR100N6101

| DESCRIPTION, D x W x H            | QTY | PART NUMBER |
|-----------------------------------|-----|-------------|
| Implant, 16 mm x 18 mm x 9 mm, 6° | 2   | 108N1609    |
| Screw, ø3.5 mm x 16 mm            | 6   | 109N3516    |
| Screw, ø3.5 mm x 18 mm            | 6   | 109N3518    |

#### TrellOss-C SA Rasp Kit Kit Number: PCR100N9100

| DESCRIPTION, D x W x H          | QTY | PART NUMBER |
|---------------------------------|-----|-------------|
| Rasp, 12 mm x 15 mm x 5 mm, 6°  | 1   | 136N1205    |
| Rasp, 12 mm x 15 mm x 6 mm, 6°  | 1   | 136N1206    |
| Rasp, 12 mm x 15 mm x 7 mm, 6°  | 1   | 136N1207    |
| Rasp, 12 mm x 15 mm x 8 mm, 6°  | 1   | 136N1208    |
| Rasp, 12 mm x 15 mm x 9 mm, 6°  | 1   | 136N1209    |
| Rasp, 12 mm x 15 mm x 10 mm, 6° | 1   | 136N1210    |
| Rasp, 12 mm x 15 mm x 11 mm, 6° | 1   | 136N1211    |
| Rasp, 12 mm x 15 mm x 12 mm, 6° | 1   | 136N1212    |
| Rasp, 14 mm x 16 mm x 5 mm, 6°  | 1   | 136N1405    |
| Rasp, 14 mm x 16 mm x 6 mm, 6°  | 1   | 136N1406    |
| Rasp, 14 mm x 16 mm x 7 mm, 6°  | 1   | 136N1407    |
| Rasp, 14 mm x 16 mm x 8 mm, 6°  | 1   | 136N1408    |
| Rasp, 14 mm x 16 mm x 9 mm, 6°  | 1   | 136N1409    |
| Rasp, 14 mm x 16 mm x 10 mm, 6° | 1   | 136N1410    |
| Rasp, 14 mm x 16 mm x 11 mm, 6° | 1   | 136N1411    |
| Rasp, 14 mm x 16 mm x 12 mm, 6° | 1   | 136N1412    |
| Rasp, 16 mm x 18 mm x 5 mm, 6°  | 1   | 136N1605    |
| Rasp, 16 mm x 18 mm x 6 mm, 6°  | 1   | 136N1606    |
| Rasp, 16 mm x 18 mm x 7 mm, 6°  | 1   | 136N1607    |
| Rasp, 16 mm x 18 mm x 8 mm, 6°  | 1   | 136N1608    |
| Rasp, 16 mm x 18 mm x 9 mm, 6°  | 1   | 136N1609    |
| Rasp, 16 mm x 18 mm x 10 mm, 6° | 1   | 136N1610    |
| Rasp, 16 mm x 18 mm x 11 mm, 6° | 1   | 136N1611    |
| Rasp, 16 mm x 18 mm x 12 mm, 6° | 1   | 136N1612    |

## Important Information on the TrellOss-C SA Porous Ti Interbody System

#### **Device Description**

TrellOss is a collection of additively manufactured implants. The TrellOss-C SA Porous Ti Interbody System includes additively manufactured spacer and traditionally machined fixation screw implants. The spacer and screw components are available in an assortment of dimensional combinations to accommodate the individual anatomic and clinical circumstances of each patient. The basic shape of the spacer is a structural column to provide surgical stabilization of the spine. Each device comprises an external structural frame having a roughened surface (~7 µm). The intervening geometric lattices have 300-700 µm pores. The inferior/superior aspects of the spacer incorporate a vertical cavity which can be packed with bone graft material. Each interbody is preassembled with a turn lock mechanism that secures the screw to the spacer component.

#### Indications for Use

The TrellOss-C SA Porous Ti Interbody System is a stand-alone anterior cervical interbody fusion system intended for use as an adjunct to fusion at one or two contiguous levels (C2-T1) in skeletally mature patients for the treatment of degenerative disc disease (defined as discogenic neck pain with degeneration of the disc confirmed by history and radiographic studies). These patients should have received at least six weeks of non-operative treatment prior to treatment with the device. The TrellOss-C SA Porous Ti Interbody System is to be used with autograft bone graft and/or allogeneic bone graft composed of cancellous and/or corticocancellous bone and implanted via an open, anterior approach. The TrellOss-C SA Porous Ti Interbody System is intended to be used with the bone screw fixation provided and requires no additional fixation.

#### Contraindications

The TrellOss-C SA Porous Ti Interbody System contraindications include, but are not limited to:

- The presence of infection, pregnancy, metabolic disorders of calcified tissues, grossly distorted anatomy, inadequate tissue coverage, any demonstrated allergy or foreign body sensitivity to any of the implant materials, drugs/alcohol abuse, mental illness, general neurological conditions, immunosuppressive disorders, morbid obesity, patients who are unwilling to restrict activities or follow medical advice, and any condition where the implants interfere with anatomical structures or precludes the benefit of spinal surgery.
- Biological factors such as smoking, use of nonsteroidal anti-inflammatory agents, the use of anticoagulants, etc. all have a negative effect on bony union. Contraindications may be relative or absolute and must be carefully weighed against the patient's entire evaluation.
- Any condition not described in the Indications for Use.
- Prior fusion at the level(s) to be treated.

#### Warnings and Precautions

- Mixing of dissimilar metals can accelerate the corrosion process. Stainless steel and titanium implants must NOT be used together in building a construct.
- The TrellOss-C SA Porous Ti Interbody System devices should be implanted only by surgeons who are fully experienced in the use of such implants and the required specialized spinal surgery techniques. Prior to use, surgeons should be trained in the surgical procedures recommended for use of these devices.

# Important Information on the TrellOss-C SA Porous Ti Interbody System (continued)

- The correct selection of the implant is extremely important. The potential for success is increased by the selection of the proper size, shape and design of the implant. Based on the dynamic testing results, the physician should consider the levels of implantation, patient weight, patient activity level, other patient conditions, etc., which may impact on the performance of the device.
- These devices are provided as single use only implants and are not to be reused or re-implanted regardless of an apparent undamaged condition.
- The TrellOss-C SA Porous Ti Interbody System is used to augment the development of a spinal fusion by providing temporary stabilization. If fusion is delayed or does not occur, material fatigue may cause breakage of the implant. Damage to the implant during surgery (i.e., scratches, notches) and loads from weight bearing and activity will affect the implant's longevity.
- The correct handling of the implant is extremely important. Use care in handling and storage of devices. Store the devices in a clean, dry area away from radiation and extreme temperatures and corrosive environments such as moisture, air, etc.
- Patients with previous spinal surgery at the level(s) to be treated may have different clinical outcomes compared to those without a previous surgery.
- Components of this system should not be used with components of any other system or manufacturer.
- Potential risks identified with the use of this system, which may require additional surgery, include: device component breakage, loss of fixation/loosening, nonunion, vertebral fracture, neurologic, vascular or visceral injury.

#### **Potential Adverse Effects**

Potential complications and adverse effects for this system are similar to those of other spinal instrumentation systems and include, but are not limited to: pseudarthrosis, insufficient bone stock, painful bursa, pressure necrosis, palpable components, early or late loosening of the components; disassembly, bending or breakage of any or all of the components; foreign body (allergic) reaction to the implants; possible infections requiring removal of devices; loss of neurological function, including paralysis, spinal cord impingement or damage.

#### For more information, visit ZimVie.com

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