

HAWKEYE™ TI

Vertebral Body Replacement (VBR)





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(VBR)

Introduction

The ChoiceSpine Hawkeye™ Ti is a Titanium vertebral body replacement (VBR) device intended for cervical (C2-T1) and thoracolumbar (T1-L5) corpectomy procedures. The spacer has a basic oval/trapezoidal shape, a hollow center for placement of bone graft, and angled ridges or “teeth” on both the superior & inferior surfaces. Hawkeye Ti is offered in 8° lordosis, and multiple footprints to accommodate varying patient anatomies. The system is intended for use with supplemental fixation.

System Features

- Built-in lordosis: 8°
- 14mm - 60mm implant sizes in 2mm (INC)
- Two footprint options: small (12mm × 14mm) and medium (14mm × 16mm) to treat various patient anatomies
- Large center opening for bone graft material
- Lateral and Anterior windows for implant positioning verification
- 510(k) cleared for cervical and lumbar use



1. Perform Corpectomy

Perform a partial or complete corpectomy at the indicated level (Fig. 1). Remove disc material and decorticate the endplates by using general disc prep instrumentation. A Rasp (D070-0002) can be used to prepare the endplates if desired.

CAUTION: To avoid risk of subsidence, avoid excessive preparation of the endplates that may remove cortical bone and weaken them.

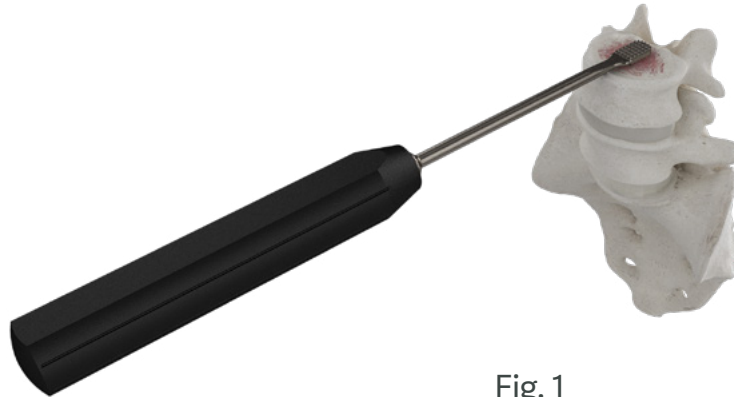


Fig. 1

2. Sizing the Implant Device

The space created during corpectomy should be measured using the Caliper (D070-0010) from the anterior aspect of the interior endplate to the anterior aspect of the superior endplate. The surgeon may increase the resistance on the back of the Caliper (Fig 2) to ensure a more precise measurement. Select the appropriate size implant based off the measured distance between the endplates. The Dual Trial (D070-0009) (Fig. 3) can be used to determine the correct footprint size by placing in the disc space.

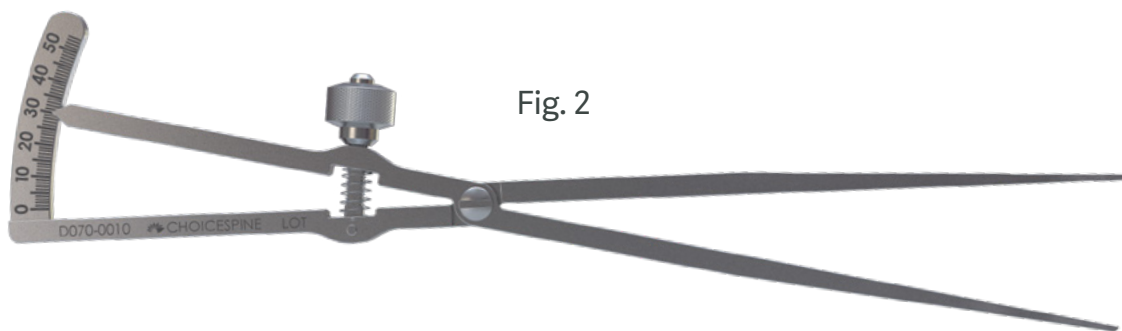


Fig. 2



Fig. 3

3. Bone Grafting

Before insertion, load the implant with autograft or allograft (Fig. 4). A **Tamp (D070-0003)** is provided to assist the surgeon in packing the material. The implant must be fully impacted before insertion so that there are no ridges of bone in the implant. The bone graft acts as a support for fusion to the implant. Pack the implant with bone graft such as ChoiceSpine's Stratofuse® Biologics by using the Tamp.



Figure 4

4. Implant Insertion

Slide the Inserter Sleeve onto the Inserter (D070-0001). Once the Inserter Sleeve (Fig 5 & 6) is fully seated on the Inserter, rotate the Inserter Sleeve so it is retained on the Inserter.



Figure 5



Figure 6

Thread the implant onto the Inserter until fully seated (Fig. 7). The prongs on the end of the Inserter Sleeve should be captured in the holes next to the threaded hole in the center of the implant.



Figure 7

Insert the implant into the disc space to securely seat it in the final position. Release the implant from the Inserter by rotating counterclockwise and verify placement under fluoroscopy. The Tamp can be used for implant adjustments within the disc space for final placement.

The **VBR Ramp (D070-0008)** can be used during implant insertion to provide a smooth surface to slide the implant up. Hold the side of the **Ramp** with the holes and set the distal end bracket on the anterior face of the inferior vertebral body. Slide implant attached to **Inserter** across the ramp for ease of insertion.

The **Ramp** can also be used for soft tissue protection.

5. Verify Implant Placement

Proper insertion of the implant should be verified via A/P and lateral fluoroscopy (Fig. 8). If the height of the implant needs to be adjusted in the space, the **Inserter** instrument can be used again, as can the **Tamp**. Additional bone can be packed anteriorly to ensure fusion.



Figure 8

6. Supplemental Fixation

The ChoiceSpine Hawkeye™ Ti VBR System is to be used with supplemental fixation such as the ChoiceSpine Lancer™, Thunderbolt™, Blackbird™, or Ambassador®/Falcon™ systems.

7. Removal

In the event removal is required, attach the **Inserter** to the Hawkeye Ti Implant as described in **Section 4**. Care must be taken so that the implant is properly connected during removal.

Instruments

Catalog # Instruments Quantity

D070-0001, Inserter

2



D070-0002, Straight Rasp

1



D070-0003, Straight Tamp

1



D070-0008, Ramp

1



D070-0009, Trial

1



D070-0010, Caliper

1

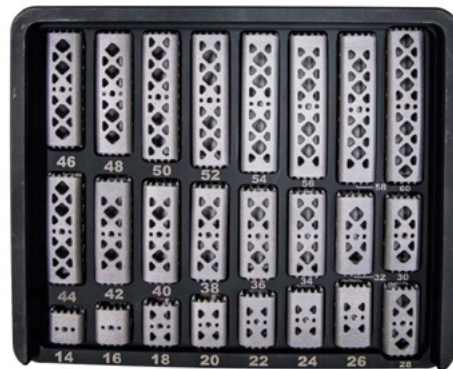
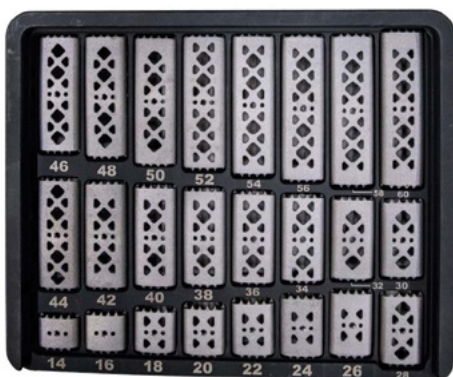


Implants 12x14x8° (Small)

Catalog #	Description	Qty
WT10-12140814	12x14x8°x14 Spacer	1
WT10-12140816	12x14x8°x16 Spacer	1
WT10-12140818	12x14x8°x18 Spacer	1
WT10-12140820	12x14x8°x20 Spacer	1
WT10-12140822	12x14x8°x22 Spacer	1
WT10-12140824	12x14x8°x24 Spacer	1
WT10-12140826	12x14x8°x26 Spacer	1
WT10-12140828	12x14x8°x28 Spacer	1
WT10-12140830	12x14x8°x30 Spacer	1
WT10-12140832	12x14x8°x32 Spacer	1
WT10-12140834	12x14x8°x34 Spacer	1
WT10-12140836	12x14x8°x36 Spacer	1
WT10-12140838	12x14x8°x38 Spacer	1
WT10-12140840	12x14x8°x40 Spacer	1
WT10-12140842	12x14x8°x42 Spacer	1
WT10-12140844	12x14x8°x44 Spacer	1
WT10-12140846	12x14x8°x46 Spacer	1
WT10-12140848	12x14x8°x48 Spacer	1
WT10-12140850	12x14x8°x50 Spacer	1
WT10-12140852	12x14x8°x52 Spacer	1
WT10-12140854	12x14x8°x54 Spacer	1
WT10-12140856	12x14x8°x56 Spacer	1
WT10-12140858	12x14x8°x58 Spacer	1
WT10-12140860	12x14x8°x60 Spacer	1

Implants 14x16x8° (Medium)

Catalog #	Description	Qty
WT10-14160814	14x16x8°x14 Spacer	1
WT10-14160816	14x16x8°x16 Spacer	1
WT10-14160818	14x16x8°x18 Spacer	1
WT10-14160820	14x16x8°x20 Spacer	1
WT10-14160822	14x16x8°x22 Spacer	1
WT10-14160824	14x16x8°x24 Spacer	1
WT10-14160826	14x16x8°x26 Spacer	1
WT10-14160828	14x16x8°x28 Spacer	1
WT10-14160830	14x16x8°x30 Spacer	1
WT10-14160832	14x16x8°x32 Spacer	1
WT10-14160834	14x16x8°x34 Spacer	1
WT10-14160836	14x16x8°x36 Spacer	1
WT10-14160838	14x16x8°x38 Spacer	1
WT10-14160840	14x16x8°x40 Spacer	1
WT10-14160842	14x16x8°x42 Spacer	1
WT10-14160844	14x16x8°x44 Spacer	1
WT10-14160846	14x16x8°x46 Spacer	1
WT10-14160848	14x16x8°x48 Spacer	1
WT10-14160850	14x16x8°x50 Spacer	1
WT10-14160852	14x16x8°x52 Spacer	1
WT10-14160854	14x16x8°x54 Spacer	1
WT10-14160856	14x16x8°x56 Spacer	1
WT10-14160858	14x16x8°x58 Spacer	1
WT10-14160860	14x16x8°x60 Spacer	1





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