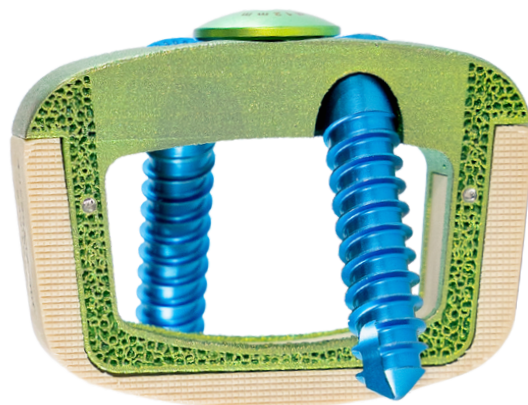


TiBrid™ SA

STANDALONE ALIF IBD



PRODUCT FEATURES:

- Combination of PEEK-OPTIMA™ HA Enhanced and porous titanium encompasses two osseointegration thought paradigms into one implant
- Three footprints (32x25mm, 36x27mm, and 40x29mm)
- Height range of 10mm to 18mm
- Lordotic angles offered: 8°, 12°, 16°, and 20°
- Its 3D-printed titanium boasts a proprietary porosity of 75% and a diameter of 550 micrometers. Coupled with its hollow center, the implant can accommodate auto or allograft, for optimal bone ingrowth.
- Implant mechanical strength is attributed to the 3D-printed porous titanium and the proprietary mechanical assembly process rather than the use of a titanium additive (i.e. titanium coating or spray)
- Standalone system is used with provided self-drilling, self-tapping, fixed, and/or variable screws
- Screw sizes offered: 5.5 to 6.0mm diameters and 15 to 35mm lengths
- Plates can be used in conjunction with the standalone cage to provide greater stability
- Plates are offered in a 4 hole construct with lengths ranging from 30mm to 38mm in increments of 2mm.

Osteoconductive:

Hydroxyapatite (HA), a well-known osteoconductive material, is fully integrated through the PEEK-OPTIMA™, making it available on all surfaces and internally throughout the device. This allows for earlier bone ongrowth and greater new bone formation into and through the device rather than just around it. ^{1,2} Additionally, the implant endplates are made of a patent pending porous titanium. The unique geometric structure of the pores also attributes to the implant's optimization for bony fusion.

Mechanical Strength:

The strength of TiBrid™ SA can be credited to the proprietary mechanical assembly process used during manufacturing. The TiBrid assembly process utilizes titanium pins to affix the PEEK components and 3D-printed porous titanium parts. Unlike the known method of spraying a titanium coating onto the PEEK, TiBrid's unique assembly method eliminates the risk of delamination.

Radiolucent:

With radiolucent PEEK-OPTIMA™ HA Enhanced and its unique assembly, TiBrid™ SA provides a completely unobstructed fluoroscopy lateral view. Together, these features allow for easy monitoring of the healing site with X-rays, CT or MRI.

Dual Option System:

TiBrid™ SA provides the option of using the cage solo as a standalone device or attaching a plate to it for supplemental fixation. This choice equips surgeons with feasible options when faced with instances where anchoring into the vertebrae might be difficult (e.g. poor bone quality).

Reference:

- Study evaluated the bone ongrowth of PEEK-OPTIMA™ and PEEK-OPTIMA™ HA Enhanced in a bone defect model in sheep. Data on file at Invivio. This has not been correlated with human clinical experience
- J. Henkel, M. A. Woodruff, D. R. Epari, R. Steck, V. Glatt, I. C. Dickinson, P. F. M. Choong, M. A. Schuetz, D. W. Huttmacher. Bone Regeneration Based on Tissue Engineering Conceptions — A 21st Century Perspective. Bone Research (2013) 1, 216–248.
- Evans NT, Torstrick FB, Lee CS, et al. High-strength, surface-porous polyether-ether-ketone for load-bearing orthopedic implants. Acta Biomater 2015;13:159-67.
- Cheng A, Cohen DJ, Boyan BD, et al. Laser-sintered constructs with bio-inspired porosity and surface micro/nano-roughness enhance mesenchymal stem cell differentiation and matrix mineralization in vitro. Calcif Tissue Int 2016;99:625-37.

ORDERING INFORMATION:

CATALOG NUMBER	PRODUCT DESCRIPTION
17-0A-322510-XX	TiBrid SA Interbody, 32mm x 25mm x 10mm offered in 8°,12°, 16°, or 20° lordosis
17-0A-322512-XX	TiBrid SA Interbody, 32mm x 25mm x 12mm offered in 8°,12°,16°, or 20° lordosis
17-0A-322514-XX	TiBrid SA Interbody, 32mm x 25mm x 14mm offered in 8°,12°,16°, or 20° lordosis
17-0A-322516-XX	TiBrid SA Interbody, 32mm x 25mm x 16mm offered in 8°,12°,16°, or 20° lordosis
17-0A-322518-XX	TiBrid SA Interbody, 32mm x 25mm x 18mm offered in 8°,12°,16°,or 20° lordosis
17-0A-362710-XX	TiBrid SA Interbody, 36mm x 27mm x 10mm offered in 8°,12°, or 16° lordosis
17-0A-362712-XX	TiBrid SA Interbody, 36mm x 27mm x 12mm offered in 8°, 12°, 16°, or 20° lordosis
17-0A-362714-XX	TiBrid SA Interbody, 36mm x 27mm x 14mm offered in 8°,12°, 16°, or 20° lordosis
17-0A-362716-XX	TiBrid SA Interbody, 36mm x 27mm x 16mm offered in 8°,12°,16°,or 20° lordosis
17-0A-362718-XX	TiBrid SA Interbody, 36mm x 27mm x 18mm offered in 8°,12°,16°,or 20° lordosis
17-0A-402910-XX	TiBrid SA Interbody, 40mm x 29mm x 10mm offered in 8°,12°,or 16° lordosis
17-0A-402912-XX	TiBrid SA Interbody, 40mm x 29mm x 12mm offered in 8°,12°,16°,or 20° lordosis
17-0A-402914-XX	TiBrid SA Interbody, 40mm x 29mm x 14mm offered in 8° 12°, 16°, or 20° lordosis
17-0A-402916-XX	TiBrid SA Interbody, 40mm x 29mm x 16mm offered in 8°, 12°, 16°, or 20° lordosis
17-0A-402918-XX	TiBrid SA Interbody, 40mm x 29mm x 18mm offered in 8°, 12°, 16°, or 20° lordosis

The font colors above correspond to the implant anodization colors which are indicative of the implant heights: 10mm-Magenta, 12mm-Green, 14mm-Light blue, 16mm-Gold, 18mm-Aqua

