

VertiGRAFT® Allograft
CERVICAL FAMILY
PORTFOLIO



	VG2® Cervical Allograft	VG1® Cervical Allograft	Fibular Spacer Allograft	Laminoplasty Allograft
COMPOSITION	Assembled bio-implant made of cortical and cancellous matrix	Solid, one-piece, machined cortical bio-implant	Solid, one-piece, natural-shaped cortical bio-implant with textured surface	Solid, one piece, cortical bio-implant
PROCEDURE	Anterior Cervical Discectomy and Fusion (ACDF)	Anterior Cervical Discectomy and Fusion (ACDF)	Anterior Cervical Discectomy and Fusion (ACDF)	Laminoplasty
APPROACH	Anterior	Anterior	Anterior or Posterior	Posterior Cervical
SHAPE	Chamfer	Chamfer	Natural Shape	Anatomic
PARALLEL/LORDOTIC	Parallel and 7° Lordosis	Parallel and 7° Lordosis	Parallel and Lordosis	Parallel
HEIGHT	6 - 12 mm (anterior)	5 - 10* mm (anterior)	5 - 14* mm (anterior)	6 mm
LENGTH	12 and 14* mm (AP)	12* mm (AP)	8 - 12* mm (diameter)	4 - 12 mm (5 Sizes)
WIDTH	12.5 and 14.5* mm (ML)	14.5* mm (ML)		9 mm
TECHNOLOGY	Allowash XG® Sterilization SAL 10 ⁻⁶ Preservon® for Ambient Storage	Allowash XG, Sterilization SAL 10 ⁻⁶ Preservon for Ambient Storage	Allowash XG, Sterilization SAL 10 ⁻⁶	Allowash XG, Sterilization SAL 10 ⁻⁶ Preservon for Ambient Storage
PRESERVATION/STORAGE	Ambient (Preservon) and frozen	Ambient (Preservon)	Ambient (freeze-dried)	Ambient (Preservon)
STERILITY	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶
INSTRUMENTATION	VG2 Cervical Instruments, DePuy Synthes®	KEYSTONE® Cervical Instruments, DePuy Synthes	VERTIGRAFT Allograft Fibular Trials, DePuy Synthes	ARCH® Laminoplasty System, DePuy Synthes
BOTTOM LINE	<ul style="list-style-type: none"> Assembled spacer made of cortical and cancellous matrix that provides immediate structural support facilitating early bone growth¹ 100% fusion rates after 12 months in 74 ACDF procedures² No additional bone graft required for successful fusion³ Chamfered posterior surface and bulleted nose for ease of insertion Available in both parallel and 7° lordotic configurations to better match patient anatomy Pre-hydrated, ambient storage available using Preservon technology⁵ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> Solid, one-piece, machined cortical spacer designed to provide biomechanical strength Central void allows for surgeon to insert bone graft of choice Chamfered posterior surface and bulleted nose for ease of insertion Textured surface area to reduce migration Available in both parallel and 7° lordotic configurations to better match patient anatomy Pre-hydrated, ambient storage available using Preservon technology⁵ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> Solid, one-piece, natural shaped cortical spacer designed to provide biomechanical strength Central void allows for surgeon to insert bone graft of choice Textured surface area to reduce migration Available in both parallel and lordotic configurations to better match patient anatomy Freeze-dried for room temperature storage Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> Solid, anatomically shaped, one piece cortical spacer designed to provide bio-mechanical strength, optimal contact area and immediate stability Pre-Hydrated, ambient storage using Preservon Technology⁵ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴

REFERENCES

1. Fox B, Gopez A, Sukovich W, and Kerner M. Anterior Cervical Spine Fusion Rates Using a Frozen Laminated Composite Allograft and Plating. The Internet Journal of Spine Surgery. 2005; 2(1).
2. Ablu A, El Kadi H, Bost J, Maroon J, and Wert M. Allograft Composite Cortical and Cancellous Bone Graft for Anterior Cervical Fusion. Contemporary Neurosurgery: A Biweekly Publication for Clinical Neurosurgical Continuing Medical Education. 2005;27(8):1-6.
3. Miller LE & Block JE. "Safety and Effectiveness of Bone Allografts in Anterior Cervical Discectomy and Fusion Surgery." 2011 White Paper
4. Slivka M, Giorgio P, Webeck I, Serhan H. "Biomechanical Strength of Bone Allografts Following the Allowash XG® Allograft Sterilization System." 2004 White Paper
5. Rodway I, and Gander J. Comparison of Fusion Rates between Glycerol-Preserved and Frozen Composite Allografts in Cervical Fusion. International Scholarly Research Notices. 2014; 2014:960142.

*** Nominal Measurements**

VertiGRAFT® Allograft

LUMBAR FAMILY PORTFOLIO



	VG1® ALIF Allograft	VG2® TLIF Allograft	VG2® PLIF Allograft	VG2® Ramp Allograft
COMPOSITION	Solid, one-piece, machined cortical bio-implant	Assembled bio-implant made of cortical and cancellous matrix	Assembled bio-implant made of cortical and cancellous matrix	Assembled all cortical bio-implant
PROCEDURE	Anterior Lumbar Interbody Fusion (ALIF)	Transforaminal Lumbar Interbody Fusion (TLIF)	Posterior Lumbar Interbody Fusion (PLIF)	Posterior Lumbar Interbody Fusion (PLIF)
APPROACH	Anterior and Anterior Lateral	Posterior	Posterior	Posterior
PARALLEL/LORDOTIC	5° and 10° Lordosis (Anterior)	Parallel and 5° Oblique Lordosis	Parallel and 5° Lordosis	8° Lordosis
HEIGHT	10 - 20* mm	9 - 13* mm (Anterior)	9 - 13* mm (Anterior)	11-13* mm (Anterior)
LENGTH	23 - 27* mm (AP Diameter)	29* mm	21* mm	23* mm
WIDTH	23 - 30* mm (ML Diameter)	9* mm	9 - 13* mm	7* mm
TECHNOLOGY	Allowash XG® Sterilization SAL 10 ⁻⁶ and Preservon® for ambient storage	Allowash XG, Sterilization SAL 10 ⁻⁶	Allowash XG, Sterilization SAL 10 ⁻⁶	Allowash XG, Sterilization SAL 10 ⁻⁶
PRESERVATION/STORAGE	Ambient (Preservon) and Frozen	Frozen	Frozen	Frozen
STERILITY	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶	Allowash XG = SAL 10 ⁻⁶
INSTRUMENTATION	Universal ALIF Instruments, DePuy Synthes Oz Inserter, DePuy Synthes (requires pusher blocks) or SQUID® Inserter with VG1 ALIF Allograft tips	T.L.I.F. Instruments, DePuy Synthes VG2 Instrument Set, DePuy Synthes CONCORDE® System Trials, can be used for VG2 TLIF *note VG2 TLIF Allograft is 29 mm long while the CONCORDE System Trials are 27 mm (Modular Trial) or 31mm long (One Piece Trial)	CONCORDE Instruments, DePuy Synthes COUGAR® System Trials, DePuy Synthes for height estimation	CONCORDE Inline Instruments, DePuy Synthes
BOTTOM LINE	<ul style="list-style-type: none"> ▪ Solid, one piece, machined cortical spacer designed to provide biomechanical strength ▪ Central void allows for surgeon to insert bone allograft of choice ▪ Chamfered posterior surface and bulleted nose for ease of insertion ▪ Textured surface designed to reduce migration ▪ Multiple footprints in both parallel and lordotic configurations to better match patient anatomy ▪ Pre-hydrated, ambient storage available using Preservon technology⁵ ▪ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> ▪ Assembled spacer made of cortical and cancellous matrix that provides immediate structural support facilitating early bone growth¹ ▪ Textured surface designed to reduce migration ▪ Multiple footprints in both parallel and lordotic configurations to better match patient anatomy ▪ Consistent dimensions ▪ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> ▪ Assembled spacer made of cortical and cancellous matrix that provides immediate structural support facilitating early bone growth¹ ▪ Textured surface designed to reduce migration ▪ Multiple footprints in both parallel and lordotic configurations to better match patient anatomy ▪ Consistent dimensions ▪ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴ 	<ul style="list-style-type: none"> ▪ Assembled cortical spacer designed to restore disc height and sagittal alignment as an alternative allograft for PLIF procedures ▪ Size-specific spacers for selection of exact size implant for each procedure ▪ Textured surface designed to reduce migration ▪ Consistent dimensions ▪ Sterilized using proprietary and patented Allowash XG technology. This technology provides a sterility assurance level of 10⁻⁶, without compromising the implant's inherent osteoconductive properties⁴

* Nominal Measurements

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Descriptors on file include:

Bullet Lumbar Interbody System, Bullet, Bullet Ti, Curve Lumbar Interbody System, Inline Lumbar Interbody System, System, Scurve Lumbar Interbody System, Spacer Implant(s), Interbody Device, Interbody System