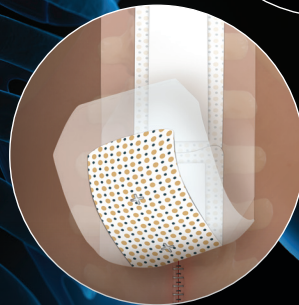
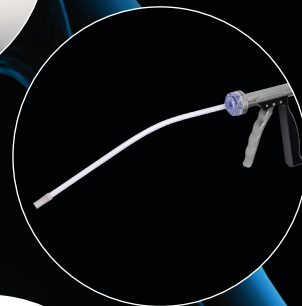


Spine and Orthobiologics Fusion

New Product Spotlight



Arthrex® 

AlloSync™ Demineralized Cancellous Sponges, Chips, and Cortical Fibers

Poststerilization, Every Lot Is Tested in Vivo to Ensure Osteoinductivity

Demineralized cortical fibers

- Provide an optimal scaffold for cellular attachment and proliferation
- Contain exposed natural growth factors

Cancellous strips

- After rehydration, the product is compressible and flexible like a sponge

Cancellous chips

- Naturally wick up bioactive fluids such as PRP and BMA

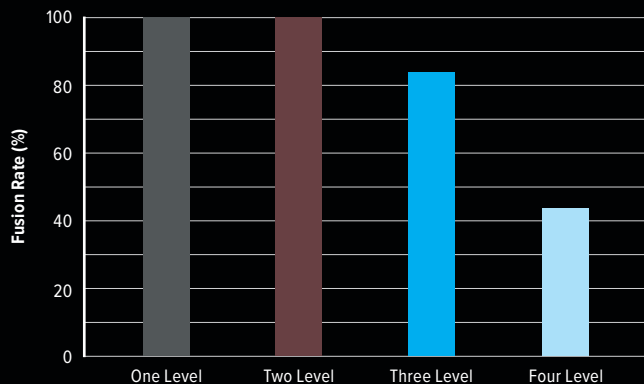


BoneSync™ Putty and Strips

Collagen-Engineered Matrix

- A blend of type I collagen and 80% highly purified beta-tricalcium phosphate
- Specifically engineered to provide a scaffold with porosity resembling natural bone
- Versatile with excellent moldability and handling
- Demonstrated fusion rates equivalent to autograft at 12 months¹

Fusion Rates in Multilevel Procedures¹



Reference

1. Integra Life Sciences Corp. Data on file (Radiographic analysis of fusion success with Integra collagen ceramic matrix, as compared to autograft use, in posterolateral lumbar spine arthrodesis). Princeton, NJ; 2010.

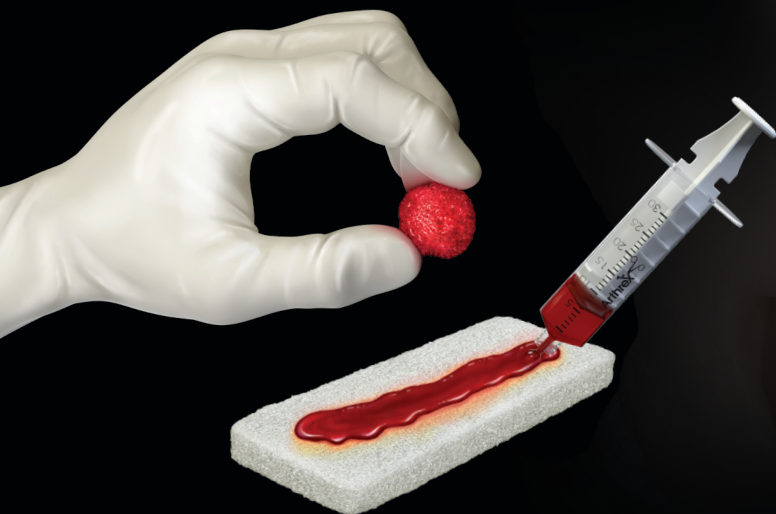


BoneSync™ BioActive

BoneSync™ BioActive is a second-generation bone void filler with bioactive glass that provides an osteoconductive and osteostimulative matrix.¹

Unique composition of:

- Bioactive glass, which creates a favorable environment for bone regeneration and osteoblast attachment^{1,2}
- Carbonate apatite anorganic bone mineral, which has an optimal resorption and remodeling profile³
- Type I collagen, which binds proteins and cells found in bone marrow aspirate (BMA) and platelet-rich plasma (PRP)⁴



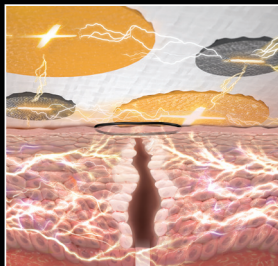
References

1. Hench LL, Polak JM, Xynos ID, Buttery LDK. Bioactive materials to control cell cycle. *Mater Res Innov.* 2000;3(6):313-323. doi:10.1007/s100190000055
2. Cottrill E, Pennington Z, Lankipalle N, et al. The effect of bioactive glasses on spinal fusion: A cross-disciplinary systematic review and meta-analysis of the preclinical and clinical data. *J Clin Neurosci.* 2020;78:34-46. doi:10.1016/j.jocn.2020.04.035
3. Spence G, Patel N, Brooks R, Rushton N. Carbonate substituted hydroxyapatite: resorption by osteoclasts modifies the osteoblastic response. *J Biomed Mater Res A.* 2009;90(1):217-224. doi:10.1002/jbm.a.32083
4. Gelger M, Li RH, Friess W. Collagen sponges for bone regeneration with rhBMP-2. *Adv Drug Deliv Rev.* 2003;55(12):1613-1629. doi:10.1016/j.addr.2003.08.010

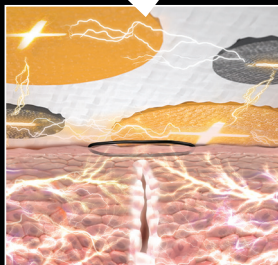
BONESYNC
BIOACTIVE

JumpStart[®] FlexEfit[®] and ClearFit[™] Dressings

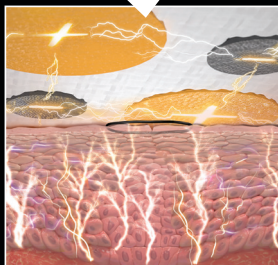
Advanced Microcurrent Technology[®]



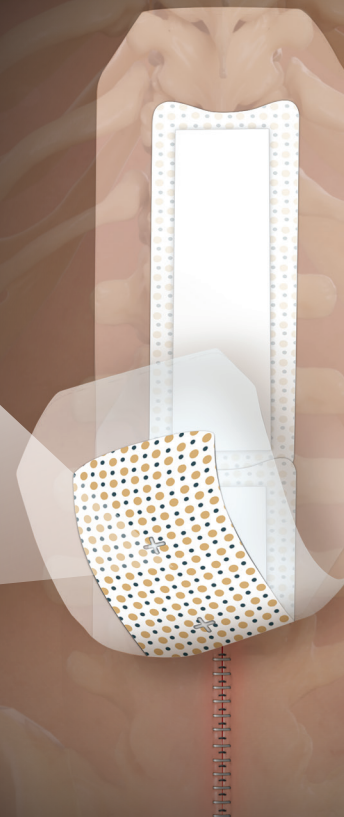
Powered by Electricity
Kills and protects against a broad range of bacteria



Energized by Results
Proven to reduce infection and promote wound healing¹⁻⁶



Inspired by the Body
JumpStart FlexEfit dressing's buildable design covers incisions of any length and angle



References

1. Kim H, Makin I, Skiba J, Ho A, Housler G, Stojadinovic A, Izadjoo M. Antibacterial efficacy testing of a bioelectric wound dressing against clinical wound pathogens. *Open Microbiol J*. 2014;8:15-21. doi:10.2174/1874285801408010015
2. Banerjee J, Das Ghatak P, Roy S, et al. Silver-zinc redox-coupled electrochemical wound dressing disrupts bacterial biofilm. *PLoS One*. 2015;10(3):e0119531. doi:10.1371/journal.pone.0119531
3. Kim H, Izadjoo MJ. Antibiofilm efficacy evaluation of a bioelectric dressing in mono- and multi-species biofilms. *J Wound Care*. 2015;24(Suppl 2):S10-S14. doi:10.12968/jowc.2015.24.Sup2.S10
4. Barki KG, Das A, Dixith S, et al. Electric field based dressing disrupts mixed-species bacterial biofilm infection and restores functional wound healing. *Ann Surg*. 2019;269(4):756-766. doi:10.1097/SLA.0000000000002504
5. Vomaris Wound Care, Inc., Data on file (Report #SLM090512CMC01F). Fountain Hills, AZ.
6. Blount AL, Foster S, Rapp DA, Wilcox R. The use of bioelectric dressings in skin graft harvest sites: a prospective case series. *J Burn Care Res*. 2012;33(3):354-357. doi:10.1097/BCR.0b013e31823356e4

GraftNet™ XL Device

Large-Volume Autologous Bone Collection
as Simple as Resect and Collect™

- Efficiently filter and collect high-volume autologous bone graft for fusion site integration
- Suction-activated collection with universal adapters at inflow and outflow
- Clip and tubing included for streamlined workflow in sterile field



GraftNet™ XL
BONE COLLECTION DEVICE

High-Speed Drill System

- Effective bone removal
- Attachments for open, MIS, and endoscopic spine procedures
- Various bur head configurations



AlloSync™ Expand

100% Demineralized Cortical Fibers

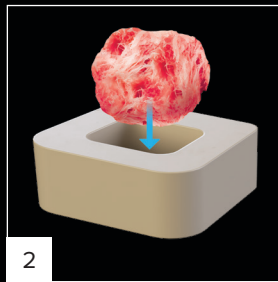
- Controlled expansion to fill gaps and maximize bone contact
- No added fillers for maximum demineralized bone content and osteoinductive potential
- Specific fiber geometry provides exceptional handling

Cellular Highways

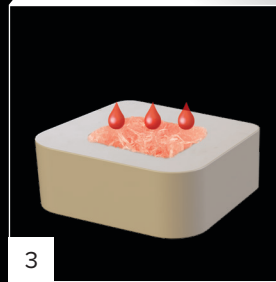
- Fibers have demonstrated superior bone-forming capacity compared to standard particulate demineralized bone matrices¹
- Entangled fibers create a 3D interconnected matrix that can promote cell migration and fusion



1
AlloSync Expand fibers can be hydrated using concentrated platelet-rich plasma (cPRP) from bone marrow aspirate (BMA).



2
Pack AlloSync Expand fibers into the graft window of the cage.



3
AlloSync Expand fibers are ideal for intraoperative handling and controlled expansion at the fusion site.

Reference

1. Martin GJ, Boden SD, Titus L, Scarborough NL. New formulations of demineralized bone matrix as a more effective graft alternative in experimental posterolateral lumbar spine arthrodesis. *Spine*. 1999;24(7):637-645. doi:10.1097/00007632-199904010-0000

ALLOSYNC

AlloSync™ Pure Matrix and the Angel® System

A Versatile Graft for Fusion Support

AlloSync Pure Demineralized Bone Matrix

- Derived from 100% human allograft bone with no extrinsic carriers and verified for osteoinductivity
- Physician-controlled viscosity for a more putty-like or viscous graft, based on hydration
- May be hydrated with choice of autologous fluid, such as concentrated bone marrow aspirate (cPRP from BMA) or PRP

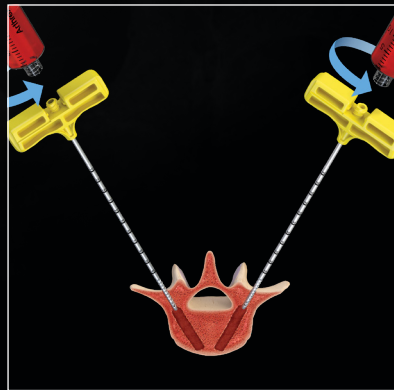


Angel System

- Customized, cPRP from BMA with proprietary 3-sensor technology (3ST) and one-button automation
- The unique design of the Vortex™ threaded recovery needle maximizes osteoprogenitor cell harvest¹

Reference

1. McLain RF, Boehm CA, Rufo-Smith C, Muschler GF. Transpedicular aspiration of osteoprogenitor cells from the vertebral body: progenitor cell concentrations affected by serial aspiration. *Spine J.* 2009;9(12):995-1002. doi:10.1016/j.spinee.2009.08.455



ALLOSYNC^{PURE}

VORTEX
Threaded Bone Marrow Recovery Needle

ARTHREX
angel
SYSTEM

ArthroCell™ Viable Bone Matrices

A Cellular Advantage

- Viable endogenous bone cells support the osteogenic healing processes¹
- A demineralized bone graft with osteoinductive potential, which provides exposure of signaling molecules and bone morphogenetic proteins (BMPs)²
- An osteoinductive, 3-dimensional scaffold with cortical and cancellous components³



ArthroCell Plus Viable Bone Matrix



Cell viability and function are preserved using a novel DMSO-free cryoprotectant that does not require decanting prior to use.

References

1. Grabowski G, Robertson RN. Bone allograft with mesenchymal stem cells: A critical review of the literature. *Hard Tissue*. 2013;2(2):20.
2. Gruskin E, Doll BA, Futrell FW, Schmitz JP, Hollinger JO. Demineralized bone matrix in bone repair: history and use. *Adv Drug Deliv Rev*. 2012;64(12):1063-1077. doi:10.1016/j.addr.2012.06.008
3. Malinin TI, Carpenter EM, Temple HT. Particulate bone allograft incorporation in regeneration of osseous defects: importance of particle sizes. *Open Orthop J*. 2007;1:19-24. doi:10.2174/1874325000701010019

Arthrex Graft Gun

Validated to Deliver 100% Autograft Chips¹

- Compatible with 100% autograft chips or any combination of autograft or allograft bone
- Designed to provide direct visibility for delivering bone graft through a decompression tube
- Can deliver graft into the disc space for fusion procedures



Consistent, precise, and controlled biologic delivery to support MIS fusions

Reference

1. Arthrex, Inc. Data on file (APT-1022220). Naples, FL; 2025.





A Campus Designed for Surgical Skills Education

The expanded Arthrex global headquarters, located in Naples, Florida, is an innovative, 80-acre, university-style campus designed to deliver an immersive and engaging medical education experience for visiting health care professionals. Our modern educational facilities represent our commitment to surgeon education and provide a vibrant atmosphere of rapid product innovation, medical research, and surgeon collaboration.

arthrex.com

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