### Arthrex ACP® System

**How it works:**
- **Arthrex ACP (Autologous Conditioned Plasma)**: Platelets (PLTs) contain growth factors (GFs). GFs help to promote and modulate healing.
- **The Arthrex ACP double-syringe system facilitates the safe and rapid preparation of platelet-rich plasma (PRP)** from a small sample of the patient’s blood. Following centrifugation, the concentrated platelets are withdrawn from the double syringe and applied at the point of care.
- **Autologous conditioned plasma (ACP)** can be mixed with autograft and allograft bone prior to application at an orthopedic surgical site as deemed necessary by the clinical use requirements.
- **White blood cells (WBCs)**, specifically neutrophils, are NOT concentrated with the Arthrex ACP system – a unique feature in the market. Neutrophils can cause detrimental effects on the healing process due to their release of degradation proteins and reactive oxygen species.

**Key Points:**
- **Effective**: 2–3x PLT concentrations
- **Reducive**: 2000:1 PLT to WBC ratio
- **Volume**: 15 cc whole blood
- **Quick**: 5-minute centrifugation time
- **Results**: ~6 cc PRP
- **Safe**: Convenient, closed system
- **Economical**: May be used with or without anticoagulant

### Key Points:

#### Part Numbers:
- **ACP/Double Syringe**: ABS-10010S
- **Series I ACP Kit**: ABS-10011
- **Series II ACP Kit**: ABS-10012

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### Arthrex Angel® System

**How it works:**
- The Angel system uses a proprietary platelet-sensor technology and one-button automation to prepare customized, concentrated PRP formulations from whole blood and/or bone marrow aspirate (BMA).
- **BMA** is a rich source of platelets, nucleated cells, and progenitor cells. The Angel device is the only one to provide PRP concentrate from BMA with adjustable cellular levels.
- The Angel system can replicate any PRP or blood therapy system on the market.

**Key Points:**
- **Effective**: Up to 1x PLT and up to 33x progenitor cell concentrations.
- **Adjustable**: PLT and WBC concentrations can be adjusted. The Angel system duplicates any competitor product.
- **Flexible**: 40 cc-180 cc blood or BMA and can be adjusted. The Angel system duplicates any market product.
- **Automatic**: Closed system delivers PRP, platelet-poor plasma (PPP), and red blood cells (RBCs) into separate, sterile compartments.
- **Programmable**: 30 custom processing protocols can be stored.

**Clinical Benefits:**
- Adjustability in the Angel system allows surgeons to customize the end product for the specific indication.
- No other system on the market provides user-defined output.

#### Part Numbers:
- **Arthrex Angel System** ABS-10060
- **Arthrex Angel System, Refurbished**: ABS-10060R
- **Angel Processing Kit**: ABS-10063
- **Angel PRP Kit**: ABS-10061
- **Arthrex Angel cPRP and BMA Kit**: ABS-10062 (Canada)
- **Arthrex Angel cPRP and BMA Tray**: ABS-10062T
- **Arthrex Angel cPRP and BMA Tray ABS-10062D**
- **BMA Kit w/Needle**: AR-1101DS
- **Arrow® OnControl™ Power Driver w/Cradle** 9401
- **Sterile Procedure Sleeve**: 9403-VC-006

*Arrow and OnControl are registered trademarks of Teleflex, Inc.*

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### Arthrex Amnion™ Matrix and Arthrex Amnion Viscous

**What is it?**
- **Arthrex Amnion Matrix** is an anatomical barrier that provides mechanical protection to help prevent adhesion and scar formation while supporting healing with GFs.

**Key Points:**
- **Protection**: Acts as an adhesion barrier to help protect tendons and nerves.
- **Regeneration**: Rich in GFs that help reduce inflammation and scarring.
- **Easy to use**: Available in membrane with 5-year shelf life and flowable version for injection.
- **Safe**: Recovered aseptically and DMSO free.

#### Part Numbers:
- **Cord**
  - 2 cm x 2 cm: ABS-4200-022
  - 2 cm x 3 cm: ABS-4200-023
  - 2 cm x 4 cm: ABS-4200-034
  - 2 cm x 6 cm: ABS-4200-036
  - 2 cm x 8 cm: ABS-4200-038
- **Thin**
  - 2 cm x 2 cm: ABS-4100-022
  - 2 cm x 3 cm: ABS-4100-023
  - 4 cm x 4 cm: ABS-4100-044
  - 4 cm x 6 cm: ABS-4100-046
  - 7 cm x 7 cm: ABS-4100-077
- **Arthrex Amnion Viscous**
  - 0.5 cc: ABS-4300-050
  - 1.0 cc: ABS-4300-100
  - 2.0 cc: ABS-4300-200

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### StimuBlast® Demineralized Bone Matrix

**What is it?**
- **StimuBlast bone matrix** is ground, demineralized cortical bone provided with a reverse-phase medium (RPM) copolymer carrier.
- **Provides a natural collagen scaffold (osteconduction)** for bone remodeling.
- **Provides signaling molecules such as bone morphogenetic proteins (BMPs)** that aid in cell differentiation and recruit osteoblasts (osteoinduction).
- **StimuBlast CB paste** provides additional scaffolding properties and structure with the addition of cancellous bone chips.

**Key Points:**
- **RPM**: Biocompatible copolymer reduces washout.
- **Flowable at ambient temperature, thickens to become more viscous at body temperature**.
- **Moldable**: May be packed into any defect size or shape.
- **Safe**: Provided terminally sterilized.
- **Efficacious**: Every lot is tested for osteoinductivity.
- **Convenient**: Stored in a cryo-freezer (-65˚C to -80˚C), convenient to mix and apply at the point of care.
- **Strong**: 24 MPa, cancellous bone is stronger than cortical bone.
- **Fast**: 2-minute mixing time.
- **Expanded porosity is obtained**.
- **Within 24 hours, strength and stiffness develops**.
- **Intended for bony voids or defects that are not intrinsic to the stability of the bony structure**.

#### Part Numbers:
- **5 cc Kit**: ABS-3005
- **8 cc Kit**: ABS-3008
- **16 cc Kit (2 x 8 cc)**: ABS-3016

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### FlexiGRAFT® Demineralized Bone Matrix

**What is it?**
- **FlexiGRAFT bone matrix** is 100% demineralized bone (DBM) provided in cubes, strips, chips, and fibers.
- **Natural bone scaffold and porosity maintained**.
- **Osteoinductive growth factors remain viable within product**. More GFs within cortical bone than cancellous bone.
- **Cubes, strips, sponges**: Cancellous bone.
- **Fibers**: Cortical bone.

**Key Points:**
- **Absorbent**: Easily hydrates with PRP or BMC.
- **Once hydrated, the product is compressible, flexible and packs into defects well**.
- **Safe**: Provided terminally sterilized.
- **Convenient**: Can be stored on the shelf for an extended period of time.

#### Part Numbers:
- **Cubes, 8 mm³, 10 mm³, 12 mm³**: BL-1100-001, 003, 002
- **Strip, 10 mm x 20 mm x 2 mm, 15 mm x 40 mm x 2 mm, 20 mm x 25 mm x 6 mm**: BL-1300-001, 002, 003, 004
- **Chips, 1.0 cc, 2.5 cc, 5 cc**: BL-1200-001, 002, 003
- **Fibers, 1.0 cc, 2.5 cc, 5 cc, 10 cc**: BL-1100-001, 002, 003, 004

### Quickset® Calcium-Phosphate Cement

**What is it?**
- **Quickset cement** is a macroporous, synthetic calcium-phosphate cement.
- **The powder includes**: β-tricalcium phosphate which aids in crystallization, β-tricalcium phosphate analogs support strength and absorption profile, polysaccharide polymer [sugar] imparts cohesiveness during injection and provides immediate porosity in vivo.
- **Serves as an osteoconductive scaffold for bone remodeling**.
- **Intended for bony voids or defects that are not intrinsic to the stability of the bony structure**.

**Key Points:**
- **Simple**: Dual-chamber, closed mixing system.
- **Fast**: 2-minute mixing time.
- **Injectable**: Excellent cohesiveness.
- **Strong**: 24 MPa, cancellous bone is 10 MPa–15 MPa.
- **Radio-opaque**: Visible on x-ray.
- **Within 24 hours, strength and porosity are obtained**.
- **Noncytotoxic, no shrinking**.
- **4-year shelf life**.

#### Part Numbers:
- **5 cc Kit**: ABS-3005
- **8 cc Kit**: ABS-3008
- **16 cc Kit (2 x 8 cc)**: ABS-3016

### ArthroCell™ Cellular Bone Graft

**What is it?**
- **ArthroCell bone graft** is a viable cellular bone matrix.
- **Contains donor mesenchymal stem cells, including narrow isolated adult multilineage-inducible (MIAMI) cells supporting osteogenic healing processes**.
- **Includes a proprietary blend of microparticulate cortical, cancellous and demineralized cortical allograft bone scaffold in optimal sizes ranging from 100 μm-300 μm**.
- **Intended for use as a safe, nonimmunogenic cellular bone scaffold for bone remodeling**.
- **Osteogenic, osteoconductive and osteoinductive potential**.
- **Convenient**: Stored in a cryo-freezer (-65˚C to 80˚C) for 2 years.
- **Novel cryptoprotectant is noncytotoxic and maximizes cell viability**.

#### Part Numbers:
- **ArthroCell Bone Graft, 2.5 cc**: ABS-2009-02
- **ArthroCell Bone Graft, 5.0 cc**: ABS-2009-05
**OSferion Bone Replacement Material**

**What is it?**
- OSferion bone replacement material is an osteoconductive bone void filler consisting of 100% β-TCP.
- Available in wedges and trapozoids.

**Key Points:**
- Strong: 15-20 MPa.
- Porous: Microradiography.
- Absorbent: Wicks autologous blood and/or BMA.
- Convenient: Stored on the shelf with extended shelf life.

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**ArthroFLEX® Dermal Allograft**

**What is it?**
- ArthroFLEX is a dermal matrix (ADM) allograft intended for supplemental support and covering for soft tissue repair.
- BioWasher® human dermal allograft are a new form of ArthroFLEX created for arthroscopic application to reinforce the tendon/suture interface (AFLEX-822).

**Key Points:**
- Decellularized allograft dermis: >99% DNA removed.
- Intact 3D scaffold consisting of collagen, elastin, and growth factors.
- Safe: Provided terminally sterilized.
- Ready for use: Provided hydrated.
- Convenient: Stored on the shelf at ambient temperature with a 3-year shelf life.

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**OATS® Backfill Plugs**

**What is it?**
- OATS backfill plugs are used to provide a line-to-line fit in the donor site.
- Larger than the OATS core harvested. Example:
  - The backfill plug ordered should be sized 1 mm smaller than the OATS core ordered.
- Safe: Provided terminally sterilized.

**Key Points:**
- Viable: In a study conducted by Osiris Therapeutics, Inc. for up to 2 years from date of recovery.
- Flexible: Easily cut and conforms to all contours.
- Simple fixation: Fibrin glue with or without sutures and/or suture anchors.
- Convenient: Stored in a cryo-freezer (−80°C) for up to 10 years from date of recovery.
- Viable: In a study conducted by Osiris Therapeutics, Inc. >72% cell viability was maintained following >2 years storage at −80°C (n=3).1

**Part Numbers:**
- 10 mm Disc  ABS-1101-10
- 12 mm x 10 mm  ABS-1102-19
- 20 mm Disc  ABS-1101-20
- 20 mm x 25 mm  ABS-1102-25

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**BioCartilage® Extracellular Matrix**

**What is it?**
- BioCartilage matrix is an anisotropically processed, dehydrated, particulate (100-300 μm) allograft articular cartilage scaffold.
- Contains the extracellular matrix that is native to articular cartilage including type II collagen, proteoglycans, and other growth factors.
- Serves as a scaffold to augment bone marrow stimulation procedures.

**Key Points:**
- Injectable: After being mixed in a 1-to-0.8 ratio with an autologous blood solution, the product can be easily injected into the defect site.
- Custom mixing and delivery system to reduce operational time and improve handling.
- Convenient: Stored on the shelf at ambient temperature for 5 years from date of recovery.
- Provided off the shelf to eliminate need for secondary surgery.
- May be performed open or arthroscopically.

**Part Numbers:**
- 1.0 cc  ABS-1010-8C
- 0.75 cc  ABS-1007-0C

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**Cartiform® Viable Osteochondral Allograft**

**What is it?**
- Cartiform allograft is a cryopreserved viable osteochondral allograft.
- Composed of extracellular matrix, viable chondrocytes, and chondrogenic proteins, Cartiform allograft offers the safety and success of fresh osteochondral allografts with ease of use.
- The pores in the tissue graft are provided to improve flexibility, enhance cryopreservation and native chondrocytes, and facilitate mesenchymal stem cell migration into Cartiform allograft, following marrow stimulation.

**Key Points:**
- Flexible: Easily cut and conforms to all contours.
- Simple fixation: Fibrin glue with or without sutures and/or suture anchors.
- Convenient: Stored in a cryo-freezer (−80°C) for up to 10 years from date of recovery.
- Viable: In a study conducted by Osiris Therapeutics, Inc. >72% cell viability was maintained following >2 years storage at −80°C (n=3).1

**Part Numbers:**
- 10 mm Disc  ABS-1101-10
- 12 mm x 10 mm  ABS-1102-19
- 20 mm Disc  ABS-1101-20
- 20 mm x 25 mm  ABS-1102-25

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**BioUni® OATS**

**What is it?**
- The BioUni instrument set is the new standard for surgeon to transplant mature, hyaline cartilage with viable chondrocytes and subchondral bone in a single procedure.
- Allograft OATS, BioUni OATS, and Allograft OATS System (RAR-4075S) ship automatically.
- Order fresh or precut cartilage through JRF Ortho or LifeNet Health.

**Key Points:**
- Indicated for osteochondral defects (OCDs), post-traumatic lesions, avascular necrosis (AVN), and lesions greater than 2.0 cm *2 in diameter.
- Fresh osteochondral allografts (OCA) allow the surgeon to transplant mature, hyaline cartilage with viable chondrocytes and subchondral bone in a single procedure.
- Allograft OATS, BioUni OATS, and Allograft OATS System instrument sets are provided at no charge when using a fresh graft from JRF Ortho or LifeNet Health.

**What’s Available?**
- Hemi-condyle
- Talus
- Distal femur
- Patella bone w/attachment
- Whole or hemicell plateu w/meniscus
- Distal Tibia
- Patellar tendon
- Femoral head
- Trochlea

**Precut Fresh Osteochondral Allograft Cores**

Precut OCA cores provide a biologic and structural repair for full thickness osteochondral lesions.

**Part Numbers:**
- 10 mm Precut Osteochondral Core, Fresh  45647010
- 15 mm Precut Osteochondral Core, Fresh  45647015
- Single Use OATS Instrument Sets 6 mm, 8 mm, 10 mm and Small Joint OATS Instrument Sets 6 mm, 8 mm, 10 mm
- Order fresh or precut cartilage through JRF Ortho or LifeNet Health.

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**Construct Grafts**

**What is it?**
- Pressurized, presized allograft tendons that are provided sterile to improve outcomes and help reduce surgical time.

**Part Numbers:**
- Pressurized Allograft GraftLink® Construct  FGL
- Presutured Lateral Ankle Tendon  FPST
- KinetiGraft TBt Construct  FKG-10
- Order through JRF Ortho: VersaGraft®h © Construct
- GraftLink® XL Construct (PCL)  GRX-001
- SpeedGraft® Construct  SPD-001

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**JumpStart® Antimicrobial Wound Dressing**

**What is it?**
- JumpStart wound dressing is a microcurrent-generating, advanced surgical dressing indicated for partial- and full-thickness wounds.
- Elemental silver and zinc form microcell batteries that generate microcurrents in the presence of conductive fluids.
- Antibacterial, antifungal, and shown to increase keratinocyte migration and wound-healing.

**Key Points:**
- Flexible: Easily contours to the site.
- Safe: Provided sterile.
- Cost-effective: Proven efficacy and extended weartime.
- Improved healing, decreases infection.

**Part Numbers:**
- Various sizes and dimensions, options are available with and without adhesive.