Advancing the Science of Foot and Ankle Surgery

Advanced Fixation.
Advanced Biologics.
One Company.

CHARLOTTE™ MTP Fusion Plate
CHARLOTTE™ Snap-Off Screw
CHARLOTTE™ Quick Staple
CHARLOTTE™ Multi-Use Compression Screw
CHARLOTTE™ Compression Staple
CHARLOTTE™ Multi-Use Compression Screw
ORTOSPHERE™ Lateral Column Arthroplasty
ALLOMATRIX® DR Peri-Articular Graft
GRAFTJACKET® Regenerative Tissue Matrix
OSTEOSET® Resorbable Mini-Head Kit

WRIGHT.
The Next Generation in Foot and Ankle Fixation

SURGEON-DRIVEN DESIGNS FOR DEMANDING FOOT AND ANKLE SURGERY

The CHARLOTTE™ Foot and Ankle Fixation System is a comprehensive line of advanced solutions for reconstructive surgery. Designed with the collective expertise of leading foot and ankle surgeons, the system pairs elegant instrumentation with high-performance implant design. The resulting system enables modern operative techniques that drive improved patient outcomes and increase surgical efficiency.

NOTE | Some products displayed may not be available due to market conditions or regulations.
MTP FUSION PLATE
Anatomic Toe Alignment, Rock-Solid Fixation

FEATURES
- Cold-worked stainless steel plates and screws
- Anatomic low-profile
- Valgus and dorsiflexion pre-set
- 2.7mm and 3.2mm cruciform screws
- Refined reamers and instrumentation

BENEFITS
- Material has superior strength, stiffness, and fatigue life to titanium alloys
- Ease of contouring
- Resists soft tissue adhesion
- Hardware is well tolerated by patient
- Surgeon can easily obtain correct toe angles
- Ease of use
- Smooth head profile
- Excellent bony purchase
- Proper preparation of fusion surfaces
- Excellent control and visibility

According to a 2003 study on fixation of the 1st MTP joint, “The most stable technique for obtaining fusion in this study was the combination of an oblique lag screw and a dorsal plate. This should lead to higher rates of arthrodesis.”

The CHARLOTTE™ MTP Fusion System is the only kit that includes all necessary equipment to obtain this type of fixation. In addition, the CHARLOTTE™ MTP Plate is 3 times stiffer than the leading competitor, with a similar anatomic low profile.

2. Data on file at WMT.
**COMPRESSION STAPLE**
Simple Placement, Powerful Compression

**APPLICATIONS:**
- Midfoot and hindfoot arthrodeses
- Forefoot osteotomies

**BEFORE**

**AFTER**

**FEATURES**
- Comprehensive range of widths and leg lengths
- Wide staple legs with external teeth
- Refined instrumentation

**BENEFITS**
- More anatomic surgical application
- Resists pullout and “plowing” through soft bone
- Easy to use; excellent mechanical compression

**SPECS**
- Cold-worked stainless steel implants
- Staple widths from 13 - 25mm
- Leg lengths from 11 - 25mm

**IMPROVED STABILITY**

<table>
<thead>
<tr>
<th>Bending Stiffness (N/mm)</th>
<th>Wright CHARLOTTE™ 20mm X 20mm Compression Staple</th>
<th>Integra NEW DEAL® 20mm X 20mm UNICLIP® Staple</th>
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**IMPROVED PULLOUT STRENGTH**

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</table>
SNAP-OFF SCREW
Fast, Accurate Fixation for Small Bone Osteotomies

Improvement Chart:
- Improved Self-Drilling
- Improved Snap-Off Consistency

**FEATURES**
- Micro-threaded tip
- Flush-break screw head
- Extended, small diameter driving shank
- Shank removal instrument

**BENEFITS**
- Immediate self-drilling; accurate placement
- Smooth head profile after shank break-off
- Compatible with most pin drivers
- Ease of placement and adjustment
- Allows removal of driving shank without loosening screw threads

**SPECS**
- Titanium alloy implants (Ti 6Al-4V)
- 2.0mm diameter in 11, 12 and 14mm lengths

**APPLICATIONS**
- Weil osteotomies
- Distal chevron osteotomies

MULTI-USE COMPRESSION SCREW
(3.0mm & 4.3mm)
Powerful Bite, Self-Drilling Design

**FEATURES**
- Self-drilling; self-tapping
- Cannulated, headless design
- Tapered head design
- Long and short distal thread configuration (4.3 mm only)

**BENEFITS**
- Surgical simplicity
- Patient comfort
- Powerful bite and compression
- Maximum purchase in distal fragment

**SPECS**
- Cold-worked stainless steel implants
- 3.0mm screws from 10mm - 34mm
- 4.3mm screws from 14 - 50mm (short thread) and 36 - 60mm (long thread)

**APPLICATIONS**
- 1st metatarsal corrective osteotomies
- Midfoot fusions
- Interphalangeal fusions
- Talonavicular fusions
While arthrodesis provides good results for medial column arthritis, it is a less attractive option for the lateral column. Fusion of these joints greatly limits compensatory motion of the foot necessary for normal gait biomechanics. Interpositional arthroplasty should be considered as an option to reduce pain and allow joint motion.

The ORTHOSPHERE® Implant is a yttria-stabilized zirconia ceramic implant designed for interpositional arthroplasty. Its durable, highly-polished surface is designed to articulate against cortical bone, allowing limited bony resection and preservation of surrounding soft tissue structures.
The trusted leader in advanced biologic repair products, Wright provides a comprehensive tissue repair portfolio. From healing non-unions of the fifth metatarsal to reinforcing achilles repairs, only your Wright representative can offer such a broad selection of clinically-proven options.

**COMPREHENSIVE BIOLOGIC PRODUCTS**

**Soft-Tissue Grafting/Chronic Wound Management**

**GRAFTJACKET®**
Regenerative Tissue Matrix
Biocompatible Reinforcement for Tendon and Ligament Repairs
**Dimensions:** 5x5cm or 2x4cm
**Average Thickness:** 1.1mm or 0.5mm

**GRAFTJACKET® SLR**
Regenerative Tissue Matrix
Dimensions and Strength Designed for Reinforcing Small Ligaments of the Foot
**Dimensions:** 0.5x3cm
**Average Thickness:** 1.4mm

**GRAFTJACKET® Maximum Force**
Regenerative Tissue Matrix
High Suture Retention Strength and Converts to Host Tissue
**Dimensions:** 4x7cm
**Average Thickness:** 1.5mm

**GRAFTJACKET® Regenerative Tissue Matrix - Ulcer Repair**
Supports Repair of Challenging Foot Ulcers
**Dimensions:** 4x4cm
**Average Thickness:** 0.7mm

**GRAFTJACKET® XPRESS**
Flowable Soft-Tissue Scaffold
Rapid Granulating Scaffold
**Volume:** 2cc

**Hard-Tissue Grafting**

**IGNITE® Power Mix**
Injectable Cellular Scaffold
Powerful, Minimally-Invasive Repair Stimulus
**Use:** Jones fractures, stable nonunions

**mini MIIG® X3**
Injectable Graft
MIIG® Injectable Graft for Small Fractures
**Use:** Open bone void filler that can augment provisional hardware to help support bone fragments

**OSTEOSET® Resorbable Mini-Bead Kit**
Customizable Therapy for Diabetic Feet
**IUse:** Bone voids secondary to osteomyelitis

**ALLOMATRIX® DR**
Peri-Articular Graft
A Firm Foundation for Fixation
**Use:** Open grafting

**ALLOMATRIX® Injectable DBM Biocomposite**
A High Concentration That Stays in Place
**Use:** Uncontained defects, minimally-invasive injection, arthroscopic grafting
### DARCO® Plating System

#### Product Part Number Description Plate Length* Mating Screw Pure/Alloy Thickness Uses

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
<th>Description</th>
<th>Plate Length*</th>
<th>Mating Screw</th>
<th>Pure/Alloy</th>
<th>Thickness</th>
<th>Uses</th>
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* Plate length measured from hole center to hole center.
CHARLOTTE™ CLAW®
2.7mm Compression Plate

AM™ SURGICAL
Endoscopic Gastrocnemius Release System

CANCELLO-PURE™
Bone Wedges

BIGARCI™
Subtalar implant System

ANCHORLOK™
Soft Tissue Anchors

DARCO® LPS
Locked Lapidus Plate

DARCO® UPS
Locked Universal Plate

DARCO® LPO
Locked Calcaneal Osteotomy Plate

DARCO® Pa
Locked Opening Wedge Plate

CHARLOTTE™ MHC
Headless Compression Screw

DARCO®
Headed Compression Screw

GRAFTJACKET™
Regenerative Tissue Matrix

COMPREHENSIVE
Flatfoot Solutions
**DARCO® Locked Plating System**

*Engineered for precise correction of ostetomies and fusions*

- **DARCO® LPS**
  Locked Lapidus Plate

- **DARCO® DPS**
  Locked Calcaneal Osteotomy Plate

- **DARCO® UPS**
  Locked Universal Plate

- **DARCO® PIA**
  Locked Opening Wedge Plate

**DARCO® Headed Compression Screws**

*Versatile cannulated screws designed specifically for Foot & Ankle applications*

- **DARCO® 6.5/7.5mm**
  Headed Screws

**CHARLOTTE™ Multi-use Compression Screws**

*Low profile, high strength screws for enhanced performance*

- **CHARLOTTE™ MUC**
  7.0mm Headless Screw

**CHARLOTTE™ CLAW® Compression Plate System**

*Redefining stability for fusions and osteotomies*

- **CHARLOTTE™ CLAW® 3.5mm Compression Plate**

- **CHARLOTTE™ CLAW® 2.7mm Compression Plate**
One Company.
Focused on Flatfoot Reconstruction

- **Evans Osteotomy**
  - CANCELLO-PURE™ Bone Wedge - Evans
  - CHARLOTTE™ CLAW® 3.5mm Compression Plate
  - DARCO® PIA Locked Opening Wedge Plate

- **Gastrocnemius Release**
  - AM™ Surgical Endoscopic Release System

- **Cotton Osteotomy**
  - CANCELLO-PURE™ Bone Wedge - Cotton
  - CHARLOTTE™ CLAW® 2.7mm Compression Plate
  - DARCO® UPS Locked Universal Plate

- **Lapidus Fusion**
  - DARCO® LPS Locked Lapidus Plate
  - CHARLOTTE™ CLAW® Compression Plate

- **Medializing Calcaneal Osteotomy**
  - DARCO® S7.5mm Headed Screws
  - CHARLOTTE™ MUC 7.0mm Headless Screw
  - DARCO® DPS Locked Calcaneal Osteotomy Plate

- **Subtalar Arthroereisis**
  - BIOARCH™ Subtalar Implant

- **Posterior Tibial Tendon Augmentation**
  - GRAFTJACKET® Regenerative Tissue Matrix

- **Flexor Digitorum Longus Transfer**
  - ANCHORLOK® Soft Tissue Anchor

- **Achilles Lengthening**
  - GRAFTJACKET® Regenerative Tissue Matrix
**Strong alternative to allograft**

- Sterile bone available off-the-shelf as a medical device
- Engineered for Evans and Cotton osteotomies
- Incorporates into host bone

![Compressive Failure Load Graph]

**CANCELLO-PURE™ GRAFT**

**Human Cancellous Bone**

Intra-Op

Post-Op, 10 Weeks

Case example courtesy of Hodges Davis, MD - Charlotte, NC

**Supplemental Tissue Augmentation**

**GRAFTJACKET®**
Regenerative Tissue Matrix

Reliable strength for tendon augmentation

**ANCHORLOK®**
Soft Tissue Anchor

Simplicity and security
Minimally-invasive correction for excessive pronation

- Conical, tapered geometry for accurate sizing
- Blunt thread design limits bone impingement and irritation
- Cannulated removal instrumentation simplifies retrieval

Case example courtesy of Peter Redko, DPM - Petaluma, CA

Pre-Op

Post-Op

Simple endoscopic Uniportal management of gastrocnemius releases

- Uniportal access for surgical simplicity
- Saves valuable OR time by eliminating patient repositioning
- Scope-mounted blade provides excellent visualization

Endoscopic view of tissue resection
The relative mechanical performance of CANCELLO-PURE™ Wedge was compared to similarly processed human cancellous bone under axial compression to determine failure load. Six samples were provided for each group that were 6mm in diameter x 12mm in length. After hydration, each sample was tested under static axial compression on an MTS machine at a rate of 1.3mm/min until failure. Failure was considered an occurrence of either and axial deformation of 1.5mm, or a decrease in sustained load of 100N. The CANCELLO-PURE™ Wedge demonstrated a stronger compressive strength than allograft cancellous bone, although the results were not statistically significant.