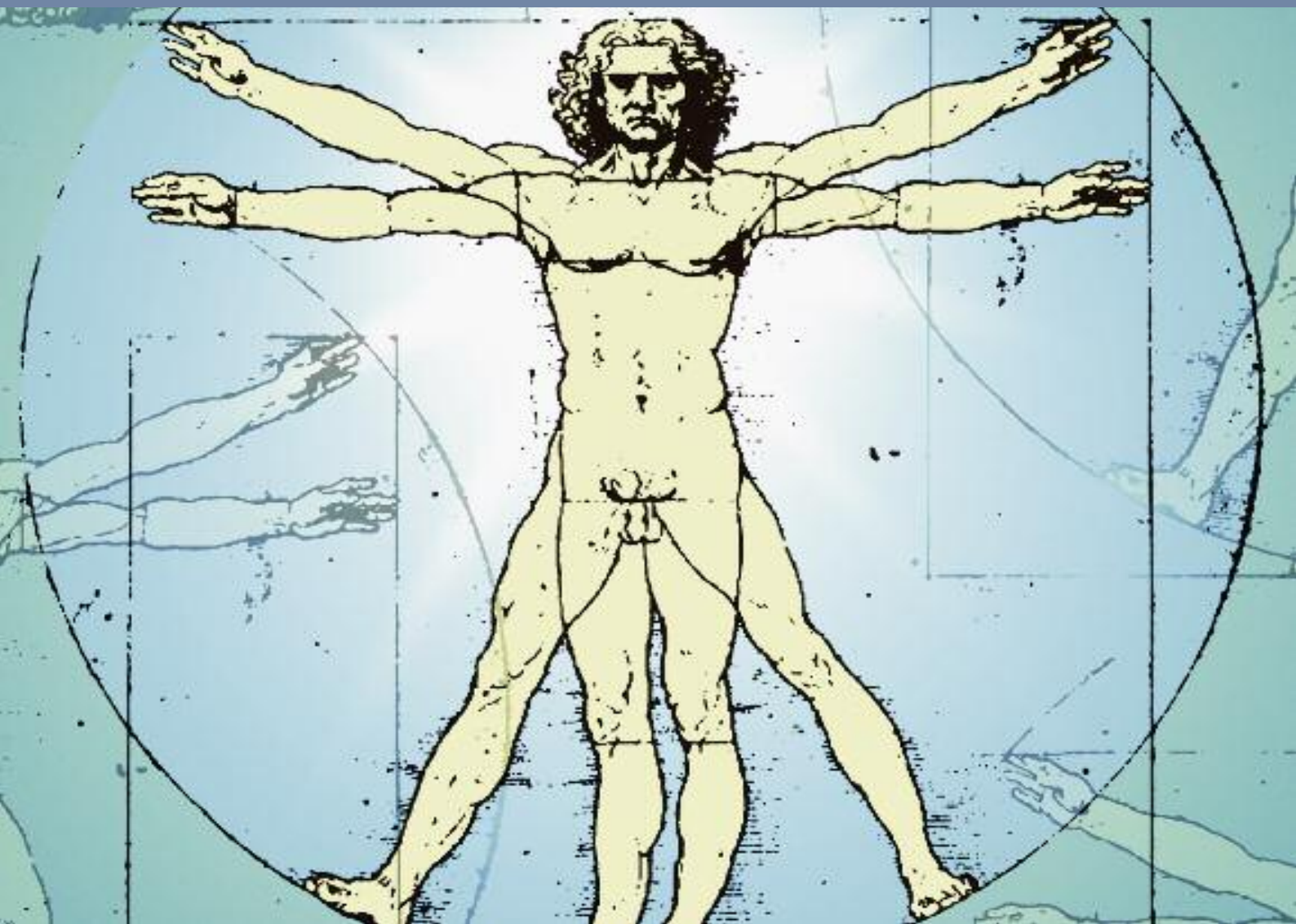
stryker®

Osteosynthesis

Indication Based Solutions

- Foot & Ankle
- Hip Fracture
- Lower Extremities & Pelvis
- Upper Extremities & Hand



Foot & Ankle

Introduction

Stryker offers a variety of targeted implant technologies for the treatment of foot and ankle indications. Each product is specifically designed for this area of the anatomy and is precisely engineered to address the daily needs of the surgeon who has a special interest in this field of orthopaedics.

Indication Based Statement

Stryker's dedicated range of specially designed products addresses the treatment of trauma and deformities associated with the foot and ankle. These include distal tibial, peri and intra-articular fractures, fibular fractures, calcaneal fractures, ankle arthrodese and fixation of corrective osteotomies. Stryker's foot and ankle portfolio covers targeted anatomical and indication specific requirements and is supported by a straightforward and verstatile platform of instruments.

Solutions

VariAx Foot Plating System

The VariAx Foot Locking Plate System represents the next generation of implant technology for foot surgery. This system allows a surgeon to insert polyaxial locking or non-locking screws at variable angles with respect to the plate, so that they can be targeted to address the location and geometry of a given fracture or osteotomy.

Asnis Micro

The Asnis Micro 2.0mm and 3.0mm cannulated titanium screws dedicated for foot and hand surgery offer an effective solution for trauma and reconstructive indications. The system is designed to facilitate surgical procedures by simplifying screw placement, insertion and removal.

Foot & Ankle

VariAx Calcaneal Plates

The VariAx Foot Locking Plate System offers two dedicated calcaneal plate designs, each incorporating a different design philosophy. The mesh design provides surgeons with an extremely low profile plate that can be easily contoured, and has many screw placement options. The slightly thicker standard plate design provides surgeons with a stronger implant that can be easily contoured to the superior surface of the calcaneus.

AxSOS Distal Tibia

The AxSOS Locking Plate System is designed to treat periarticular or intra-articular fractures of the distal tibia. The anatomical shape, the fixed screw trajectory, and high surface quality take into account the current demands of surgeons for appropriate fixation, high fatigue strength, and minimal soft tissue damage.

Staples

When stapling of bones, ligaments, tendons or soft tissue is part of the procedure, Stryker's complete family of fixation staples and a new, advanced Staple Instrumentation platform is your system of choice.

Hoffmann Xpress Sterile System

The Hoffman Xpress is a single use, MR conditional up to 3 Tesla modular system with the same biomechanical performance as the existing Hoffman products. Made of sterile packed, radiolucent components for an optimized view of the fracture site, also indicated for arthrodesis of the foot and ankle.

T2 Ankle Arthrodesis Nail

The innovative retrograde design of the T2 AAN for tibiotalocalcaneal fusions permits static or dynamic locking and controlled apposition/compression. An anatomically correct fit is achieved by means of a 5° vulgus bend with better purchase through the calcaneus.

Hip Fracture

Introduction

Hip fractures are the most common injuries in lower limb, especially in elderly patients. More than 2.5 million hip fractures are estimated to happen every year all over the globe. The Stryker Hip Fracture Systems offer surgeons to treat their patients with innovative solutions, depending on fracture type, mobility, age and patients condition. All systems allow the surgeon for a minimally invasive approach. All systems are backed up with extensive clinical data. The Gamma Nail has a history of 18 years clinical experience and has been implanted more than 1,000,000 times worldwide.

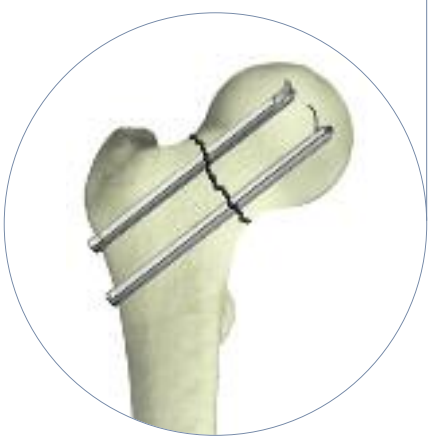
Indication Based Statement

Hip fractures are classified into various types. The most common are known as intracapsular, which includes femoral head and neck fractures, or extracapsular, which includes trochanteric and subtrochanteric fractures. The location of the fracture and the amount of angulation and comminution play integral roles in the overall morbidity of the patient. Stryker Hip Fracture Systems such as Gamma3, Omega3, Asnis III, Hansson Pin and T2 Recon Nails are designed to offer innovative and optimal solutions to help surgeons to treat patients.

Solutions

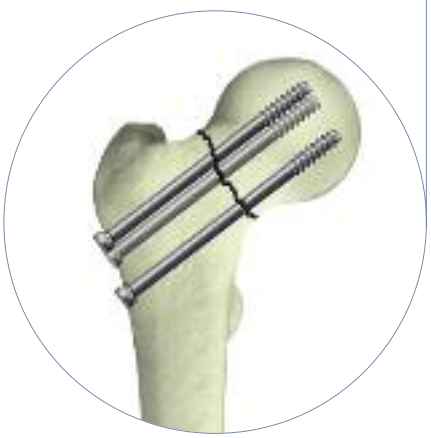
Asnis III

The Original Asnis Screw, with over 20 years of clinical history, has been found to be very successful for the treatment of intracapsular hip fractures. The Asnis III Cannulated Screw offers greater simplicity in the procedure. Parallel Guide Wires are placed and the appropriate length Cannulated Screws are advanced over the Guide Wires. A full description of this procedure is presented to give the surgeon many of the subtle details that have been learned in developing cannulated screws for successful intracapsular hip fixation. Along with the arthroscope and image intensifier, the Asnis III Cannulated Screw has been a major facilitator of minimally invasive surgery. Reduction of fractures can be achieved with radiographic control and provisionally fixed with the guide wire. Because the Cannulated Screw is inserted over the Guide Wire, the surface area of bone that must be stripped of soft tissue need only be slightly larger than the diameter of the screw.



Hansson Pin

The Hansson Pin was developed for slipped capital femoral epiphysis (physiolysis) in children with the goal to minimize the risk of avascular necrosis. Smooth pins of 6.5mm diameter can be inserted without supplying any torque to the femoral head or hammering. The success of the Hansson Pin for pediatrics led to its natural extension as an adult femoral neck fracture device. With the Parallel Drill Guide, the placement of two Hansson Pins is achieved, leading to optimal bony contact and allowing sliding.



Hip Fracture

Gamma3

Gamma3 the next generation Stryker nail within the Hip Fracture Product Portfolio for stable and unstable trochanteric fracture treatment. Gamma3 is the third generation of intramedullary short and long Gamma fixation nails. The evolution of the successful Trochanteric and Long Gamma Nails as well as the Asia Pacific and Japanese versions followed strict step-by-step improvements based on the experience and the clinical outcomes from surgeons all over the world. The Gamma3 System is designed to facilitate minimally invasive surgery and to reduce OR time to a minimum with the aid of using the state-of-the-art instrumentation and an optimized surgical technique. The Gamma3 System utilizes a global instrument platform shared with T2 and S2 Intramedullary Nailing Systems.
The nails have a proximal diameter of 15.5mm to help minimize the incision length required for minimally invasive surgery. Nevertheless, they offer the same biomechanical strength and cut out resistance as the well established Trochanteric and Long Gamma Nails.

Omega3

The Omega3 Compression Hip Screw is a unique and innovative system reflecting the long experience of Stryker Osteosynthesis in the treatment of hip fractures. This modular system offers the surgeon a wide choice of slimlined hip plates combined with a unique option of cephalic implants and state of the art instrumentation. The Omega3 Hip Fracture System denotes the new locking technique for the hip plate shaft holes. Only the Omega3 Hip Plates offer the possibility to apply 5.0mm Locking Inserts and Locking Screws in the plate diaphysis as well as standard 4.5mm Cortical Screws, 6.5mm Cancellous Screws and Asnis III Cannulated Screws. To apply Locking Inserts and Locking Screws to the Omega3 Hip Plate, the appropriate locking instrumentation is available in the optional locking instrument set.
All Omega2 instruments are compatible with the Omega3 Hip Plates.

T2 Recon Nail

As an addition to the T2 Nailing Systems, Stryker has created a next generation femoral implant: the T2 Recon Nail for the treatment of complex, as well as more common fractures. The advantages of using intramedullary fixation for the treatment of proximal femur fractures include less soft tissue dissection and stable fracture fixation with a load sharing device.

Through the development of a common, streamlined instrument system and intuitive surgical approach, both in principle and in detail, the T2 Recon Nail offers the opportunity for significantly increased speed and functionality for the treatment of fractures and simplifies the training requirements for all personnel involved.

Lower Extremities & Pelvis

Introduction

Trauma patients can not wait and surgery is not elective. The most important thing we offer surgeons is the power to make a difference for their patients. Our Lower Extremities & Pelvis implants focus on procedural and product innovations that will stand the test of time. Making the best better is critical, because there is no time to wait.

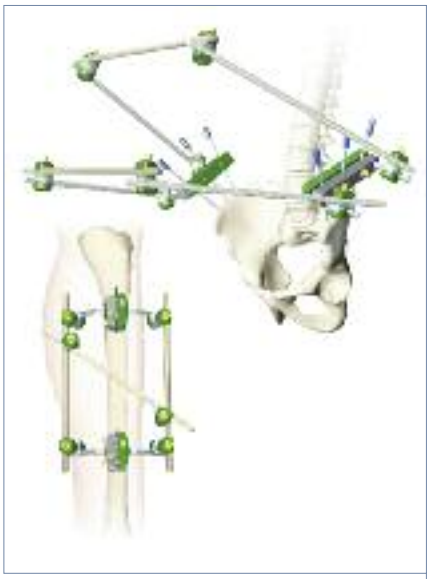
Indication Based Statement

We offer many successful products in the field – the ones surgeons and nurses have come to depend on – but we are always constantly improving and enhancing them to help meet surgeon and patient needs. AxSOS Locking Plate System, T2 Nailing System, Hoffmann II MRI, Matta Pelvic System, Asnis III System, S2 Nailing System and Numelock II Locking Plate System are just a few examples of the broad array of surgical devices we make.

Solutions

AxSOS

The AxSOS Locking Plate System is designed to treat periarticular or intra-articular fractures of the distal femur, proximal tibia, and the distal tibia. The anatomical shape, the fixed screw trajectory, and high surface quality take into account the current demands of clinical physicians for appropriate fixation, high fatigue strength, and minimal soft tissue damage.



T2 Nailing System

The T2 Nailing System allows for various locking options and extended indications. Through its streamlined surgical approach, T2 System offers significantly increased speed and functionality.

Hoffmann II MRI

The Hoffmann II MRI System is designed for MRI use up to 3.0 Tesla. Patients can be placed safely in MRI scanner with the fixator in situ without additional risk for the patient or MRI scanner itself.

Lower Extremities & Pelvis

Monotube Triax

The Monotube Triax System is an External Fixator designed for the treatment of trauma and orthopaedic indications. Due to the integrated option of a controlled Dynamization Module, natural callus formation can be supported. Its modularity allows unrestricted possibilities for reduction and positioning of half-pins through pin clamps that permit three degrees of freedom. This facilitates exact, trouble-free placement of the device with respect to the patient's anatomy.

Inion

The Inion products avoid second surgery for removal of implants. Bioresorption takes place within 2 to 4 years. Simple plate contouring gives a precise "custom" fit every time.

IM Saw

The IntraMedullary Saw is a state-of-the-art product to obtain closed osteotomies for bone lengthening/ shortening and angular/rotational deformity correction in the femur or the tibia.

S2 Nailing System

The S2 Nailing System offers implants with extreme proximal and distal locking hole positions. The distal nail design provides an optional guided locking technique.

Matta Pelvic System

The Matta Pelvic System is designed to address all fractures of the acetabulum and pelvis. Instruments are designed for the use with irregular, large and flat bony surfaces of the pelvic region.

Numelock II

The Numelock II System features a polyaxial locking mechanism. The plate can be positioned to meet the patient anatomy needs. A 30° range of screw insertion angles provides adjustibility.

Upper Extremities & Hand

Introduction

Fractures of the upper extremities & hand are some of the most common fractures seen by orthopaedists, and also present some of the more challenging fractures. Stryker has many implant options to help improve the outcome of these fractures, which have been developed through working with traumatologists around the world and extensive research. As this continues, we are focused on looking for opportunities to improve the treatment of upper extremity fractures in terms of research, product development and education.

Indication Based Statement

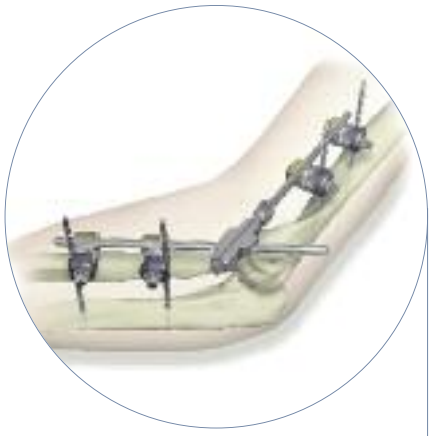
The Stryker range of Upper Extremities and Hand Products offers a full range of options from Intra-medullary nails, external fixation devices, screws, pins, plates and new orthobiologic solutions for fracture treatment.

Industry recognized product lines such as T2, Hoffmann, Asnis III, and Profyle Hand are among the offering.

Solutions

T2 Humeral Nail

The T2 Humeral Nailing System is one of the first humeral nailing systems to offer an option for either antegrade or a retrograde approach to repair fractures of the humerus. It also allows reamed or unreamed procedures and static, dynamic, and controlled apposition/ compression locking options.



DJD II Elbow Distractor

The DJD II extends the range of the HoffmannII Compact range, and is used to treat post traumatic elbow stiffness as well as some acute elbow trauma cases. The two principal goals of the DJD II are to allow active or passive motion of the elbow and to protect the articular surfaces of the elbow and collateral ligaments. Motion is allowed by a hinge, which is designed to replicate the elbow's axis of rotation, while an integrated distraction mechanism prevents the articular surfaces from damaging each other.

VariAx Distal Radius System

The anatomically shaped range of titanium plates for palmar and dorsal indications offers the surgeon low profile plates with polyaxial locking flexibility for the treatment of simple to complex fractures of the distal radius. This as well as the option to use locking or non-locking screws for any of the holes has made these systems the choice of many Hand Surgeons for treating these fractures.

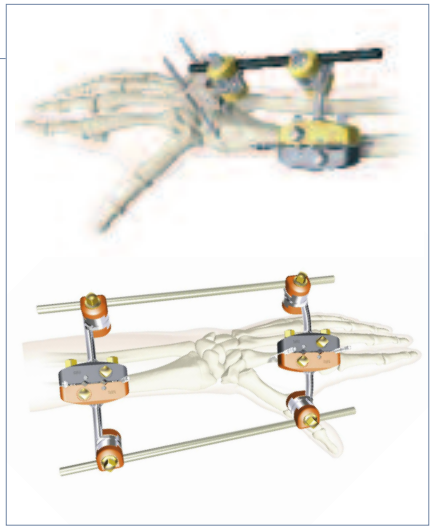
Upper Extremities & Hand

AxSOS

The AxSOS Locking Plate System is designed to treat periarticular or intra-articular fractures of the proximal humerus. The anatomical shape, the fixed screw trajectory, and high surface quality take into account the current demands of clinical physicians for appropriate fixation, high fatigue strength, and minimal soft tissue damage.

Hoffmann II Compact
Hoffmann II Compact MRI

The Hoffmann II Compact External Fixator is designed to complement the anatomy of the distal radius, and allows the surgeon to construct bridging or non-bridging frames for intra- or extra-articular fractures. The snap fit technology allows ease-of-use and rapid applications while giving the opportunity for independent pin placement.



TwinFix

The 3.2mm TwinFix cannulated compression screw is designed for the treatment of scaphoid fractures and/or scaphoid pseudarthrosis. It has a double cancellous bone thread, which allows independent rotation of distal threads for greater interfragmentary compression in situ.

Hand Profyle System

The Profyle system is a comprehensive range of plates and screw for internal fixation of hand and forearm fractures. The low profile screws fit precisely into the plate holes causing minimum protrusion. The low profile of the plates and screws along with the wide range of plate shapes and geometries makes the Profyle Hand System the Internal Fixation of Choice for Hand Surgeons around the world.

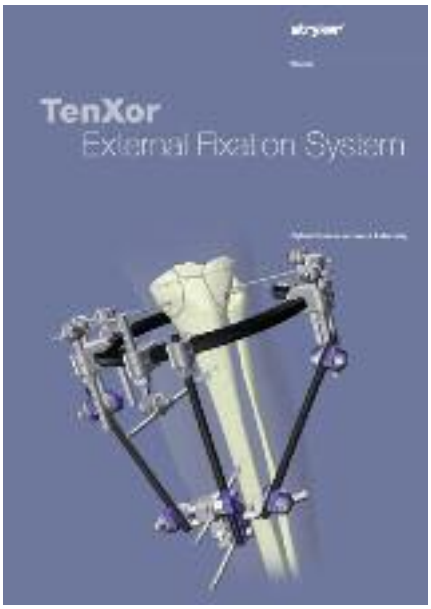
T2 Proximal Humeral Nail - Long

The Long T2 Proximal Humeral Nail is designed for the treatment of complex proximal humeral fractures and those with diaphyseal extension. While part of the well known T2 platform, the T2 PHN offers many additional features to allow stable fixation and early mobilisation. Available in left and right and a variety of lengths, it´s four proximal locking holes are not only threaded but also accomodate a nylon bushing to maintain the stability of fixation and help prevent screw back out. As with all the T2 range the T2 PHN are made of Type II anodized titanium alloy (Ti6Al4V) to maximise fatigue strength, biocompatibility and ease removal.

Radius & Ulna
Reconstruction Plates

Speciality plates have been designed for shortening osteotomies of the distal radius and ulna. Its special hole configuration and plate shapes allow both palmar and dorsal approaches, giving excellent rotationally stable osteosynthesis.

Ordering information - Literature



REF	Description
Brochures	
982181	Brochure Small Fragment
982183	Brochure Basic Fragment
982184	Brochure Matta Pelvic System
982185	Brochure Hansson Pin System
982187	Brochure Asnis III Cannulated Screw System
982192	Brochure Epi-Union
982195	Brochure Numelock II - Polyaxial Locking System
982196	Brochure Numelock II - Osteotomie (PDF Version only)
982274	Brochure Periarticular Plates
982288	Brochure Staples
982820	Brochure Flat Foot
5075-1-000	Brochure Hoffmann II
5075-1-010	Brochure Sterile Kits
5075-1-500	Brochure Hoffmann II Compact
5075-2-000	Brochure Hoffmann II Micro
5075-2-500	Brochure Triax
5075-3-000	Brochure Tenxor
5075-3-500	Brochure DJD II
5075-4-000	Brochure Apex
B1000007	Brochure T2
B1000018	Brochure S2
Operative Techniques	
982270	Operative Technique Omega2 Twin Hook and Lag Screw
982271	Operative Technique Omega2 Lag Screw
982290	Operative Technique Omega Lag Fix
982306	Operative Technique Omega3 System Compression Hip Screw
982307	Operative Technique Omega3 System Hansson Twin Hook
5075-1-001	Technical Guide Hoffmann II
5075-1-501	Technical Guide Hoffmann II Compact
5075-2-001	Operative Technique Hoffmann II Micro
5075-2-002	Operative Technique Hoffmann II Micro Lengthener
5075-2-501	Technical Guide Triax
5075-3-001	Technical Guide Tenxor
5075-3-501	Operative Technique DJD II
B0200000	Operative Technique Long Gamma
B0300000	Operative Technique Gamma Trochanteric
B0300001	Operative Technique Gamma One Shot Device
B0300002	Operative Technique Gamma Cannulated Cutter
B0300005	Operative Technique Gamma-Ti U-Blade Lag Screw
B0300006	Operative Technique Gamma-Ti
B0300008	Operative Technique Gamma3 Nail 180
B0300009	Operative Technique Gamma3 Long Nail R2.0
B0300012	Operative Technique Gamma3 Fragment Control Clip
B0300014	Operative Technique Gamma3 Wallchart
B0300019	Operative Technique Gamma3 U-Blade Lag Screw
B0300013	Operative Technique Gamma3 Lag Fix
B1000004	Operative Technique T2 Femur
B1000005	Operative Technique T2 Tibia
B1000006	Operative Technique T2 Humerus
B1000009	Operative Technique T2 Proximal Humerus
B1000010	Operative Technique T2 Knee Arthrodesis
B1000012	Operative Technique S2 Distal Target Device
B1000013	Operative Technique S2 Femur A/R
B1000014	Operative Technique S2 Tibia
B1000015	Operative Technique S2 Femur Compression
B1000016	Operative Technique S2 Tibia Compression
B1000017	Operative Technique S2 Tibia Tx
B1000020	Operative Technique T2 SCN
B1000021	Operative Technique T2 Recon
Leaflets	
982176	Matta Pelvic System Flyer
982182	Hansson Pin System
982186	Asnis III 6.5/8.0 mm Cannulated Screw System
982272	Omega2 Flyer
982282	Small/Basic Fragment Set Flyer
982283	Asnis III 4.0/5.0mm Flyer
5075-1-606	Hoffmann II MRI
5075-1-607	Hoffmann II Compact MRI
B0100003	Bixcut Flyer
B0200003	Metaizeau Flyer
B0300101	Gamma3 Nail 180 Flyer
B1000008	T2 Product Portfolio Flyer
B0300110	Gamma One Million Flyer
B1000022	T2 SCN Flyer
B1000023	T2 PHN Flyer
B1000024	S2 Flyer
B1000025	T2 Recon Flyer

Notes

stryker®

Joint Replacements

Trauma, Extremities & Deformities

Craniomaxillofacial

Spine

Biologics

Surgical Products

Neuro & ENT

Interventional Pain

Navigation

Endoscopy

Communications

Imaging

Patient Handling Equipment

EMS Equipment

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