



Applications Catalog

Trauma & Extremities

Applications Catalog

Trauma & Extremities

The purpose of this catalog is to present the main solutions for the orthopedic treatment of Trauma and Extremities regarding the full range of the Astrolabe products with the addition of the respective indications for use. The catalog is divided according to the musculoskeletal system regions such as: Upper Limb, Lower Limb, Upper and Lower extremities. Therefore, we are representing these same divisions respectively with the application of the product lines: MultiFix, SmartFix, LIVTrauma and AstroCAN.

We emphasize that the products in this catalog are not limited to these applications only. These are some of the indications for frequent use.

It's important to reinforce that the proper surgical procedures and techniques are the responsibility of the medical professional. The following guidelines are furnished for information purposes only. Each surgeon must evaluate the appropriateness of the procedures based on his or her personal medical training and experience.

For additional information, contact the Astrolabe authorized distributor in your region or through our customer service channels

Customer Service (+351) 219 672 298 info@astrolabe-medical.com

Check out all the products on the website: www.astrolabe-medical.com



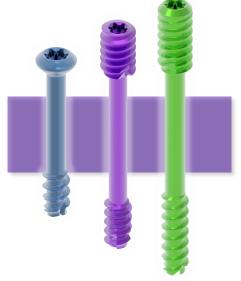


			LIFE AND I	1 O B	ILITY
Product Lines					1-2
	_	Up • •		···· ····	4 5
	_	Up •	per Extremities Distal Radius		7-8 9-10
		•	Hand Carpal Bones Wirst		9-10 11-12 12-13 14
		Lo' • •	wer Limb Knee Hip Femoral Shaft Distal Femur Proximal Tibia Distal Tibia	···· ···· ····	15 15 -16 16 17-18 19-20 21-22 23-24
L		Lo	wer Extremities		23-24
_		•	Forefoot		25-30

Midfoot ... 31-34
Rearfoot ... 35-38

Applications by line ... 39-40

Product Lines



AstroCAN

AstroCAN is the Astrolabe cannulated screw family for small and large bone fixation. Main features:

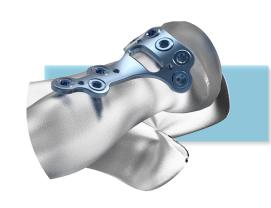
- Titanium alloy;
- Screw diameters from 2.5 to 7.0mm;
- Self tapping design;
- Headed and Headless screws options;
- Low profile head for reduction of soft tissue damage;
- Reverse cutting flutes;
 - Driving torx screws;



W trauma is Astrolabe's Most comprehensive locking plate system for fixation of small and large bone fractures, in different types of indications and applications. The system has combi-holes in the body of the plates, which allows the insertion of cortical screws or locking screws in the same hole as well as transverse cancellous screws. The LIV system has an exclusive feature of 54% increase in material (titanium) in the region between holes, providing greater resistance to the implants. Main features:

- Combi-holes locking-system;
- Rounded plate edges, for minimal irritation of the soft tissues;
- Straight plates and anatomic design options;
- Left and Right plate options;
- Pure titanium for plates;
- Titanium alloy for screws;
- Self-tapping screws;
- Driving torx screws;
- External guides for minimally invasive surgical technique for femur and tibia plates;







The MultiFix locking plate system is Astrolabe's range of axially stable locking plates for extremities bones and a variety of anatomic region. Containing as integrated parts of the MultiFix family :

- Halluxsis
- LapidoFix

And which main features are:

- Fixed angle locking system;
- Low profile plates;
- Anatomic design;
- Pure titanium for plates;
- Titanium alloy for screws;
- Self tapping screws;
- Rounded plate edges, for minimal irritation of the soft tissues;
- Cross-drive screws for the 1.2, 1.7 and 2.3mm systems;
- Torx screws for the 2.0, 2.4, 2.7 and 3.5mm systems.

SmartFix

The **SmartFix** locking plate system is the new Astrolabe family of plates that feature variable angle locking technology, which makes it possible to target locking screws according to a specific need or fracture pattern. Containing as integrated parts of the **SmartFix** family:

- Volar-📀
- Úthos
- And which main features are:
- Variable angle locking;
- Low profile plates;
- Anatomic design;
- Left and Right plate options;
- Titanium for plates;
- Titanium alloy for screws;
- Self tapping screws;
- Rounded plate edges, for minimal irritation of the soft tissues;
- Driving torx screws;

Shoulder

Proximal Humerus Plate 3,5 mm

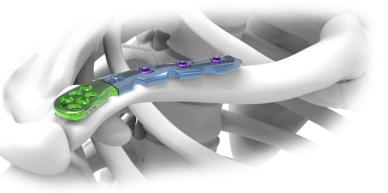




Clavicle Plates 2,7/3,5 mm



Clavicle Superior Lateral Plate Small Fragments Ø2,7/3,5mm



Clavicle Anterior Superior Plate Small Fragments 3,5mm





Locking Screws

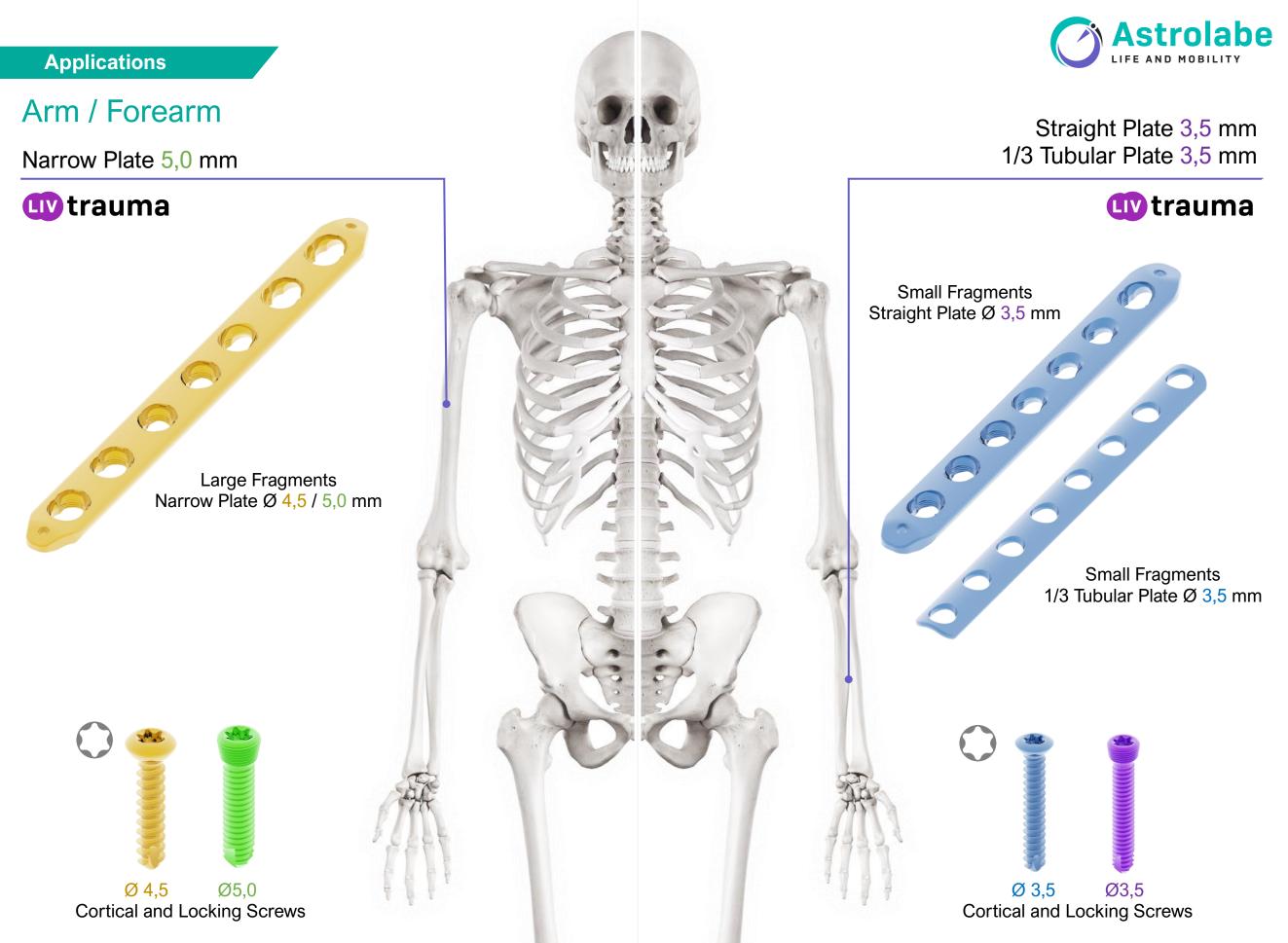


Proximal Humerus Plate Small Fragments Ø3,5 mm

Short & Long Plates



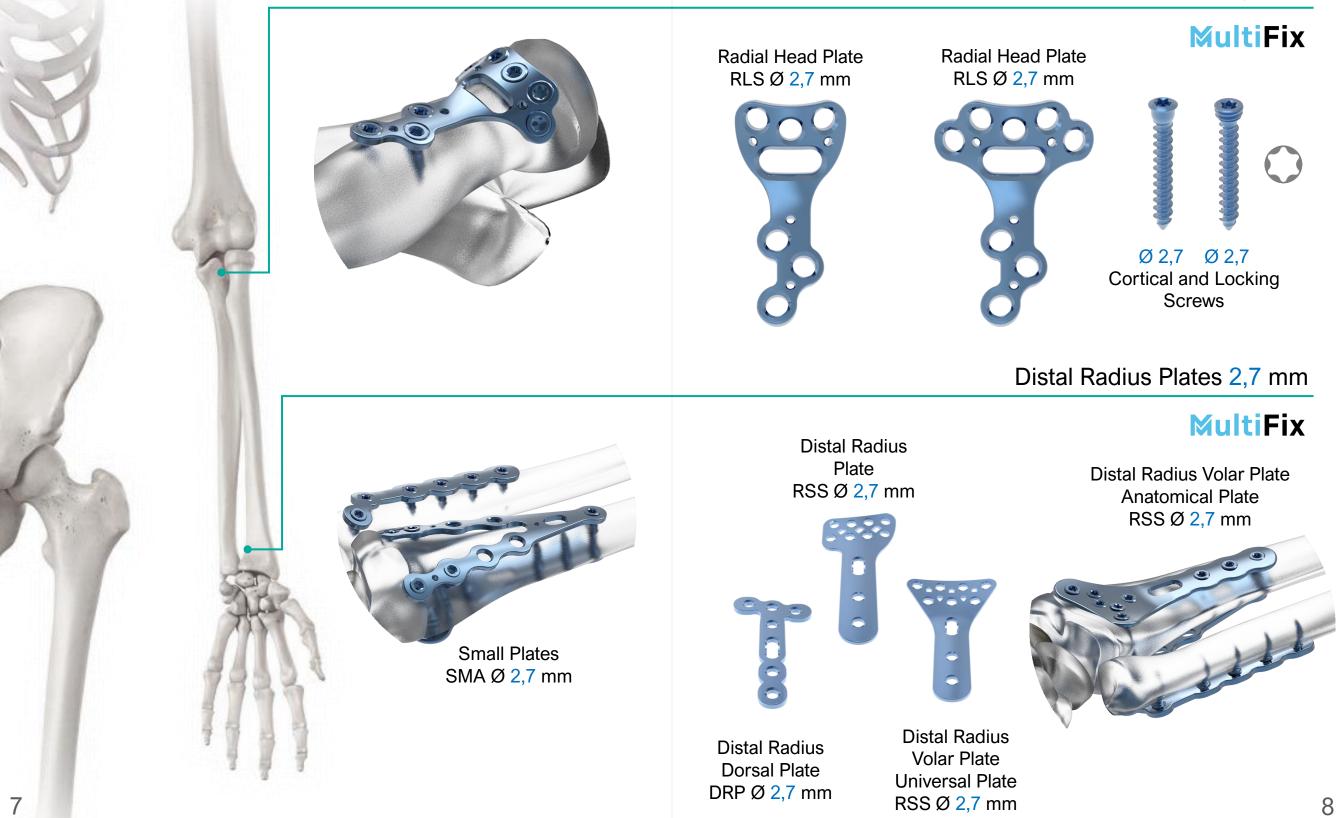
3





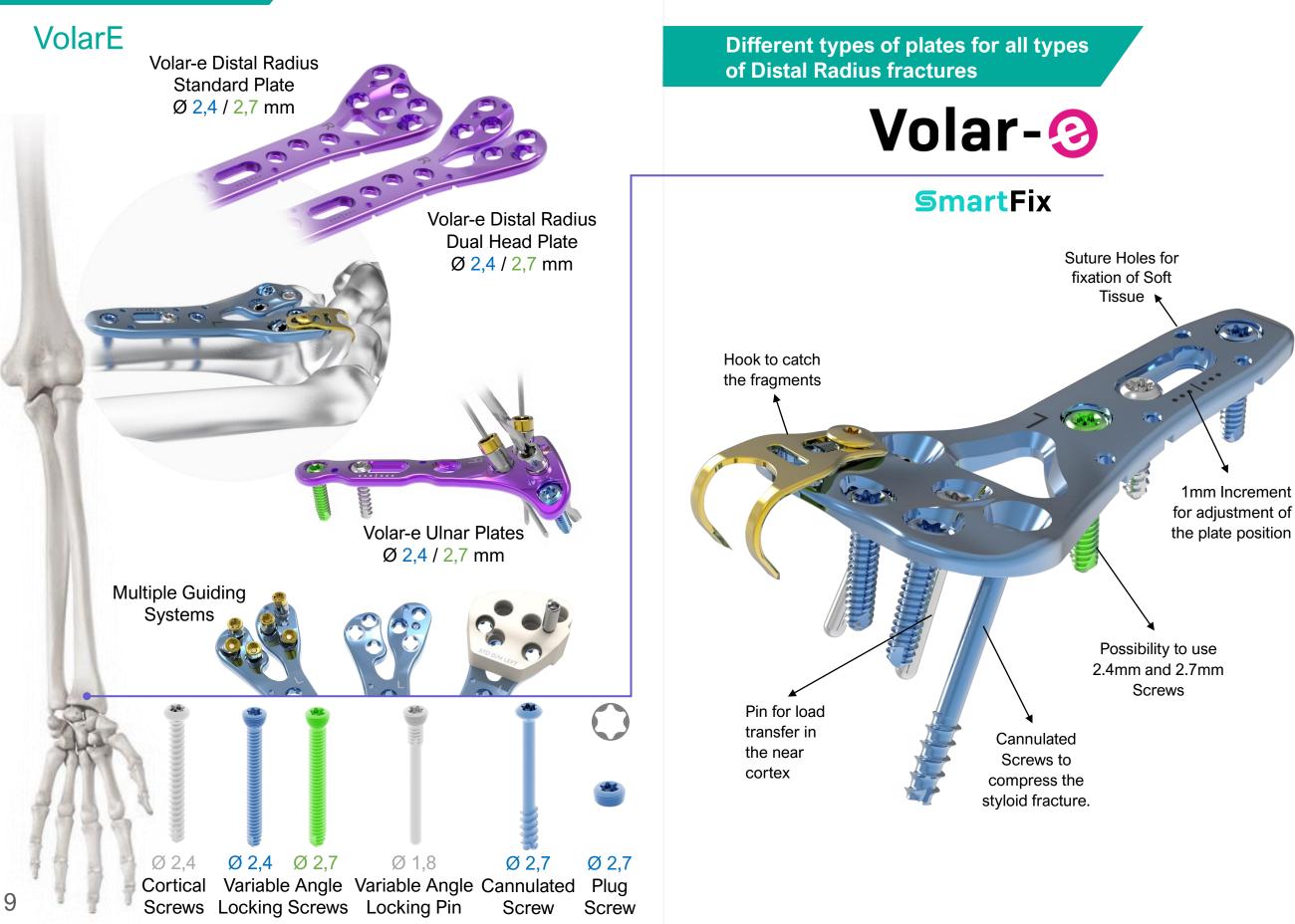
Elbow / Wrist

Radial Head Plates 2,7 mm









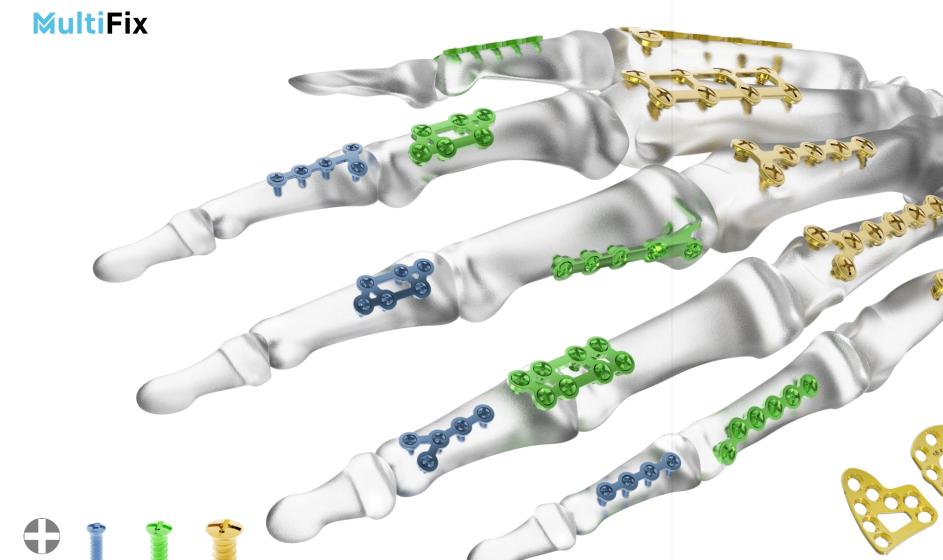


Hand

COMBO-HAND

Comprehensive Plating System





Ø 1,7 Ø 2,3

Locking Screws

Ø 1,9 Ø 2,5

Emergency

Locking Screws

Carpal Medial Plates 2,3 mm

MultiFix

STT Fusion Plate CMS 2,3 mm

Four Corners Fusion Plates CMS 2,3 mm

Ø 1,4 Ø 1,9 Ø 2,5 Emergency Cortical Screws

11

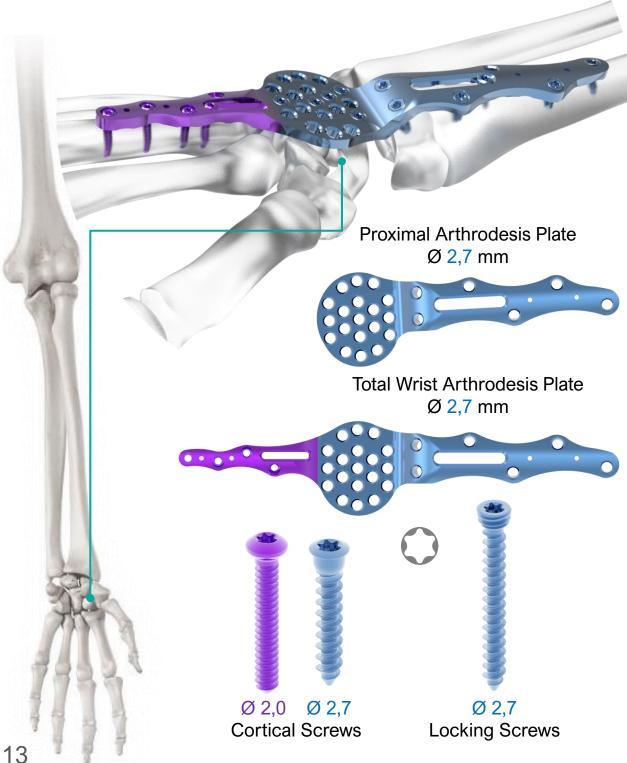
Ø 1,2 Ø 1,7 Ø 2,3 Cortical Screws



Wrist

Radiocarpal Arthrodesis

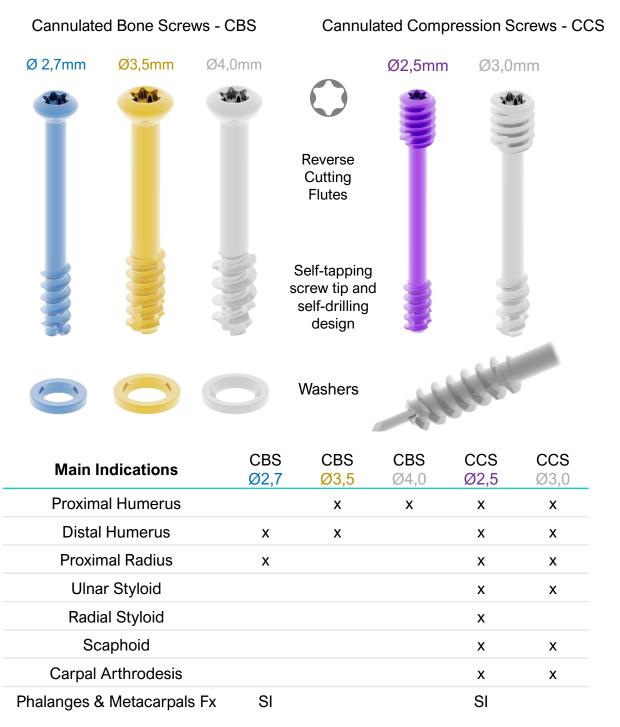
MultiFix

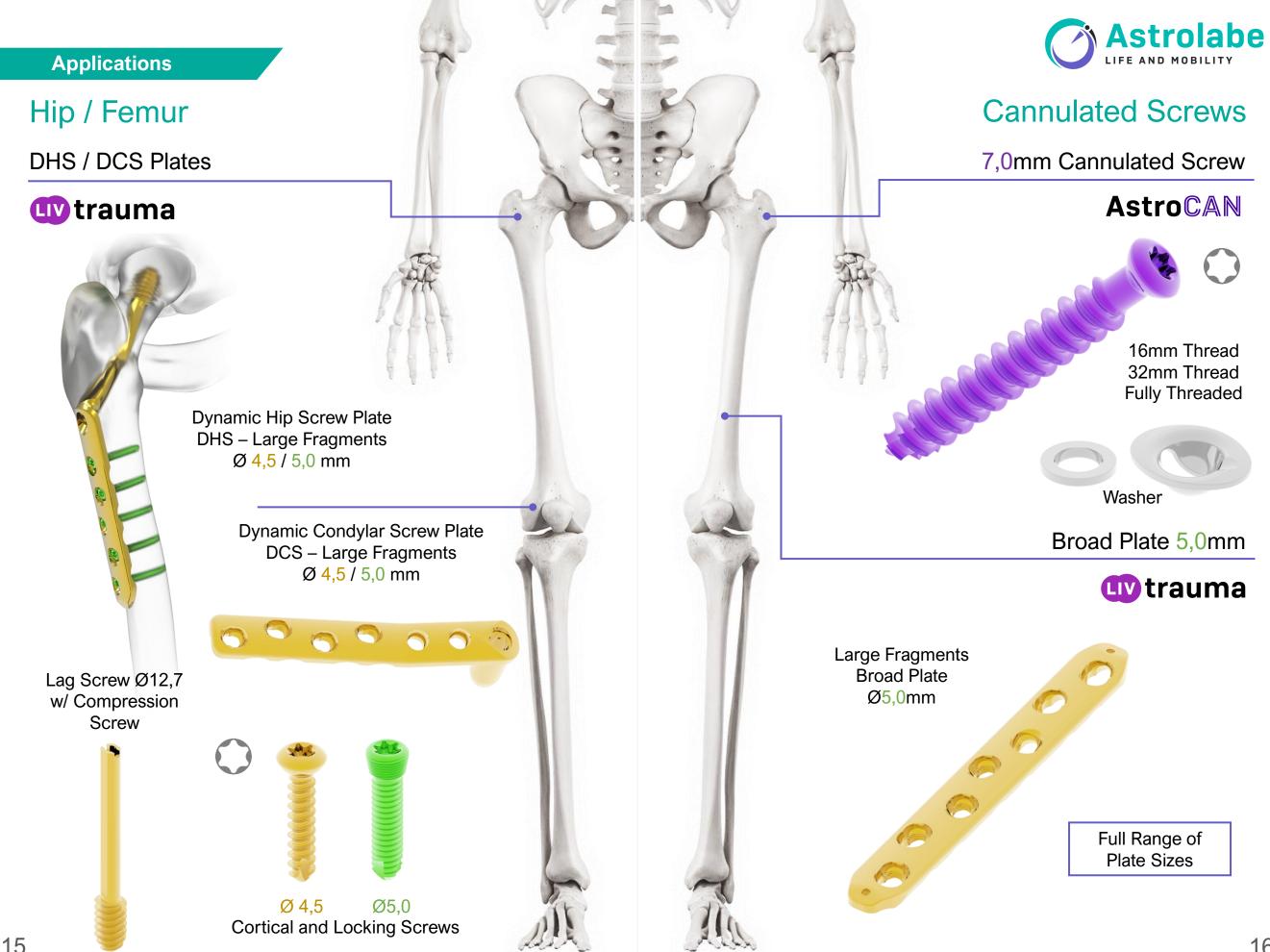


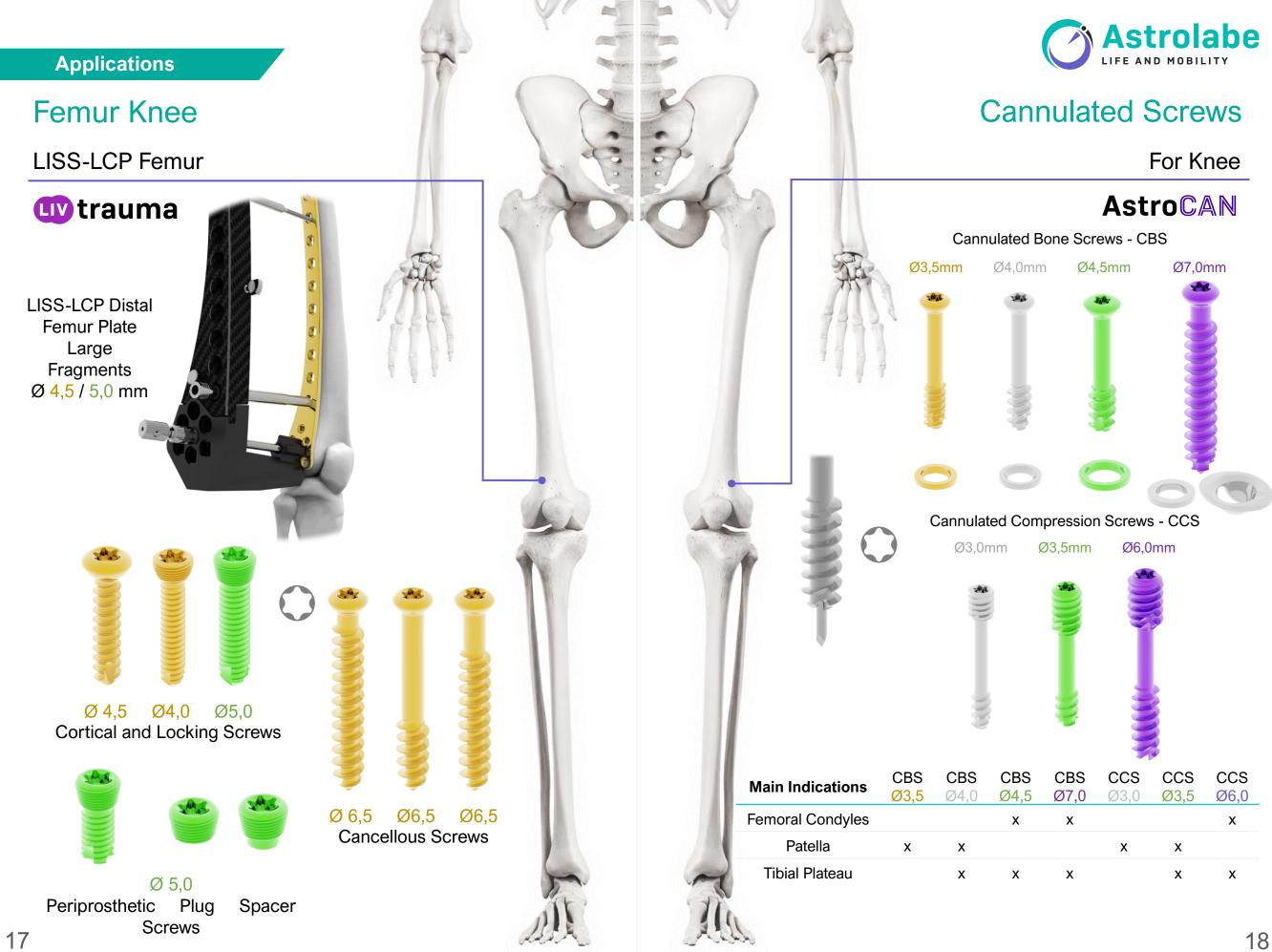
Cannulated Screws

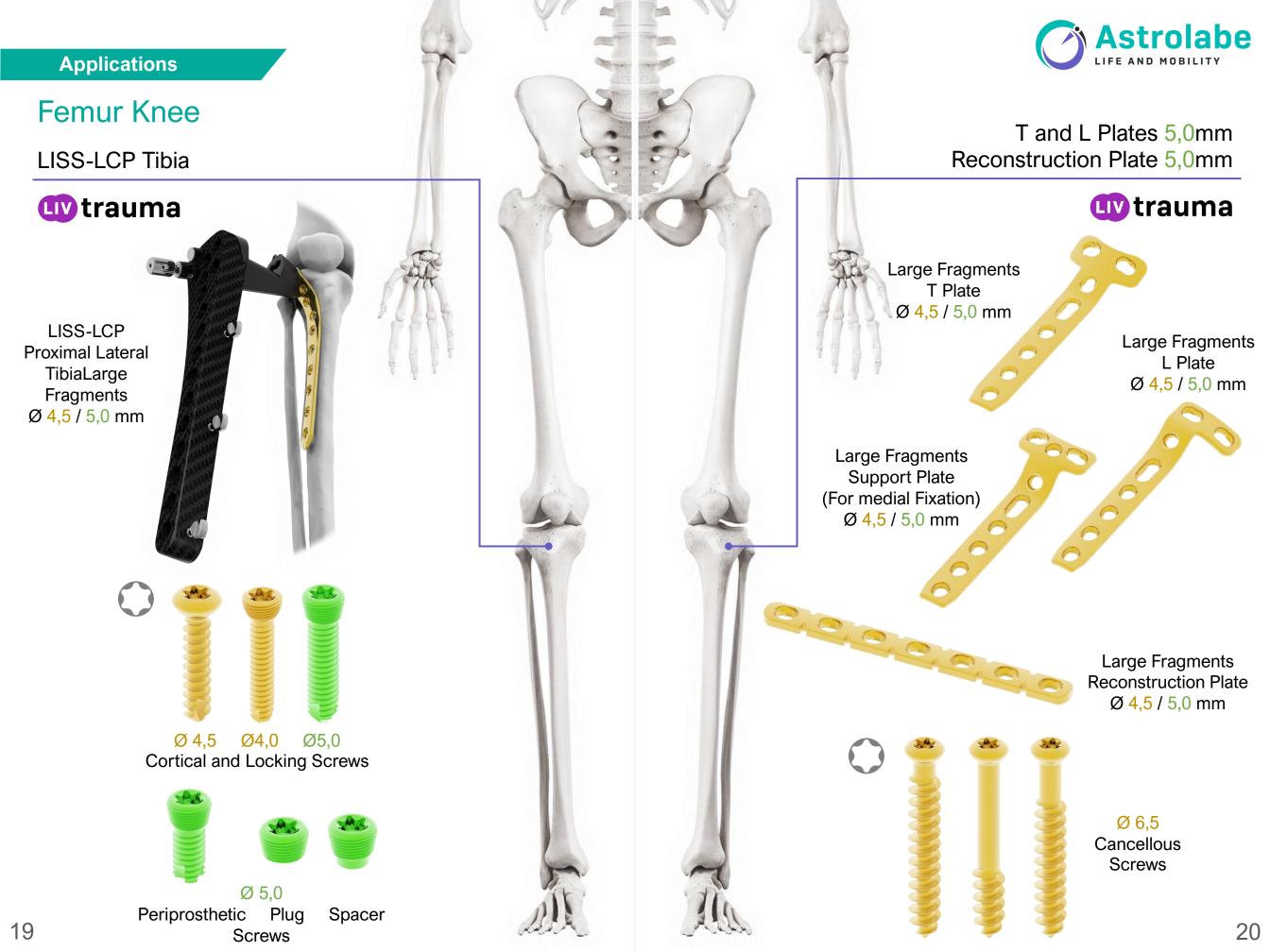
Upper Extremities Applications

AstroCAN



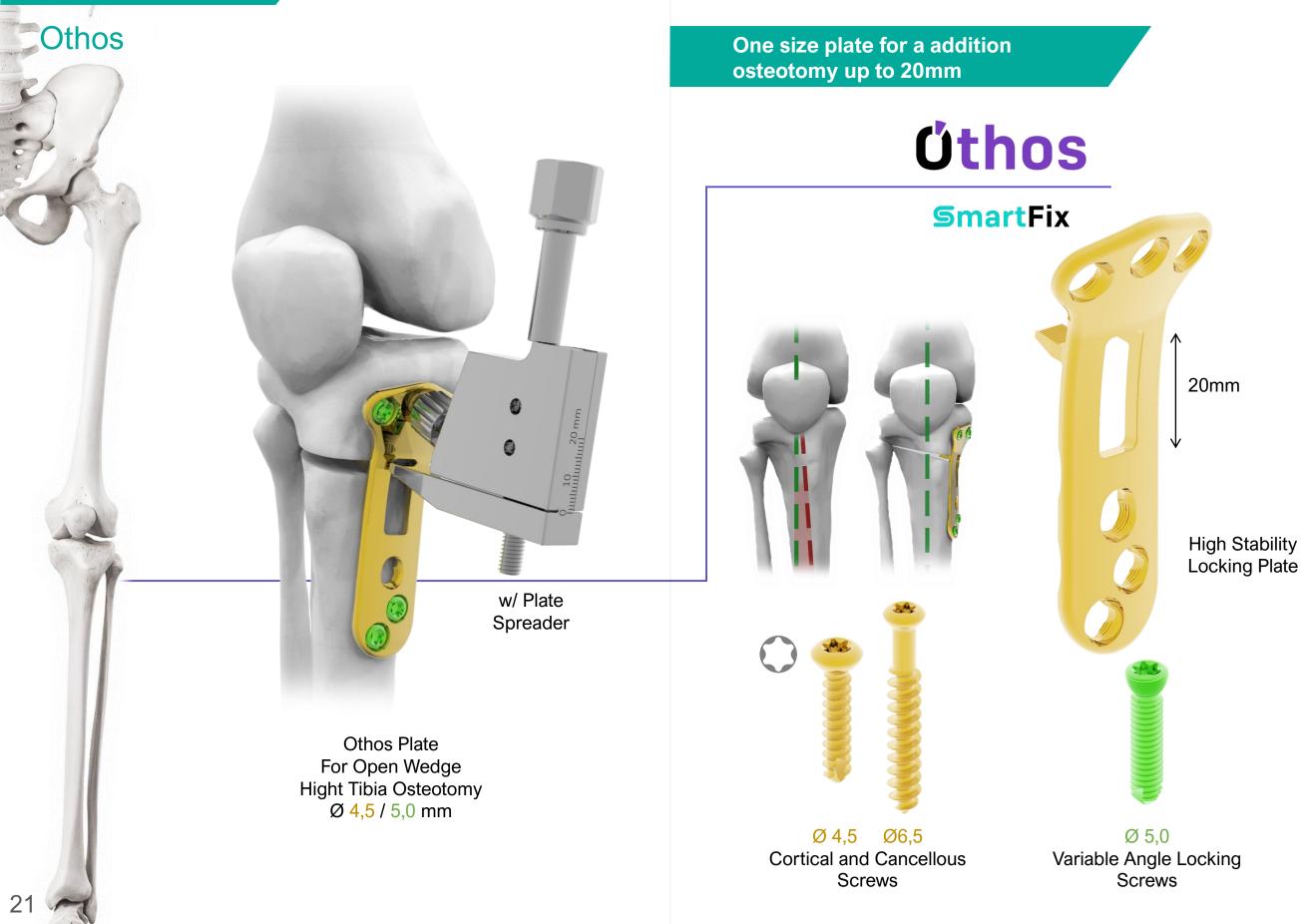


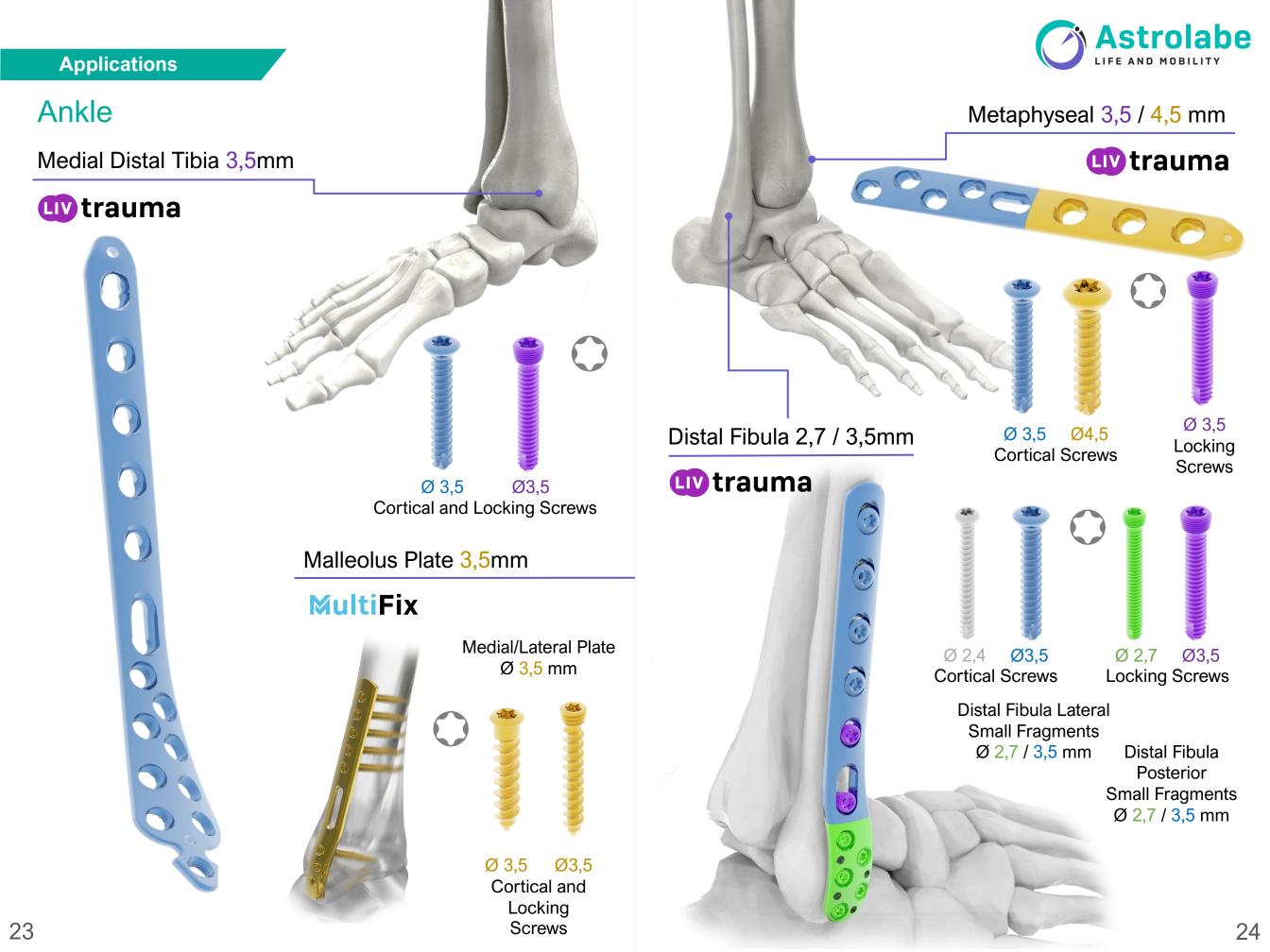












Astrolabe

Foot

Forefoot Procedures

MultiFix

1st Metatarsophalangeal Arthrodesis

A first MTP arthrodesis can be performed in cases of arthritis (hallux rigidus) or deformity. The goal is to fuse (or permanently stiffen) the first metatarsal and proximal phalanx.



Comprehensive Plating and Screws Solutions

Hallux Valgus (Bunion)

There are many procedural techniques to correct a hallux valgus deformity, including osteotomies and arthrodesis.



Astrolabe

Foot

Forefoot Procedures

MultiFix

Bunionette (Taylor's Bunion)

A bunionette is an abnormal protuberance on the lateral side of the fifth toe. Surgical treatment can require a corrective osteotomy.



Comprehensive Plating and Screws Solutions

Jones Fracture (Bunion)

There are many procedural techniques to correct a hallux valgus deformity, including osteotomies and arthrodesis





Foot Forefoot Procedures

MultiFix

Interphalangeal joint arthrodesis

Arthrodesis of the great toe's interphalangeal joint is a common procedure in order to treat a variety of conditions.

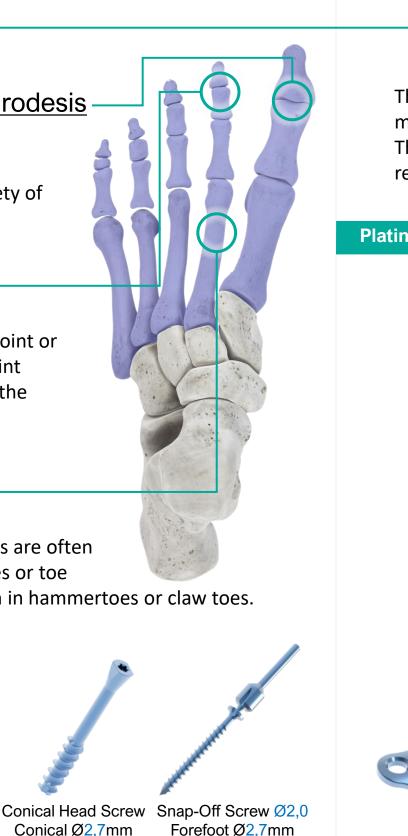
Hammertoe correction (DIP/PIP Joint)

Hammertoe correction of the PIP joint or Mallet toe correction of the DIP joint commonly involves arthrodesis of the affected joint.

<u>Metatarsal shortening</u> (Weil Osteotomy)

Metatarsal shortening osteotomies are often used to correct angular deformities or toe dislocations, most commonly seen in hammertoes or claw toes.





Comprehensive Plating and Screws Solutions

Metatarsal Fractures

The five metatarsal bones are the long bones of the midfoot . A metatarsal fracture occurs when one of these long bones is broken. This may be due to sudden injury (an acute fracture), or due to repeated stress (stress fracture).

Plating Systems

Straight Plate Midfoot Ø2,7mm

T Plate

Midfoot Ø2.7mm

Oblique Plate

Midfoot Ø2,7mm

Clover Plate Midfoot Ø2,7mm





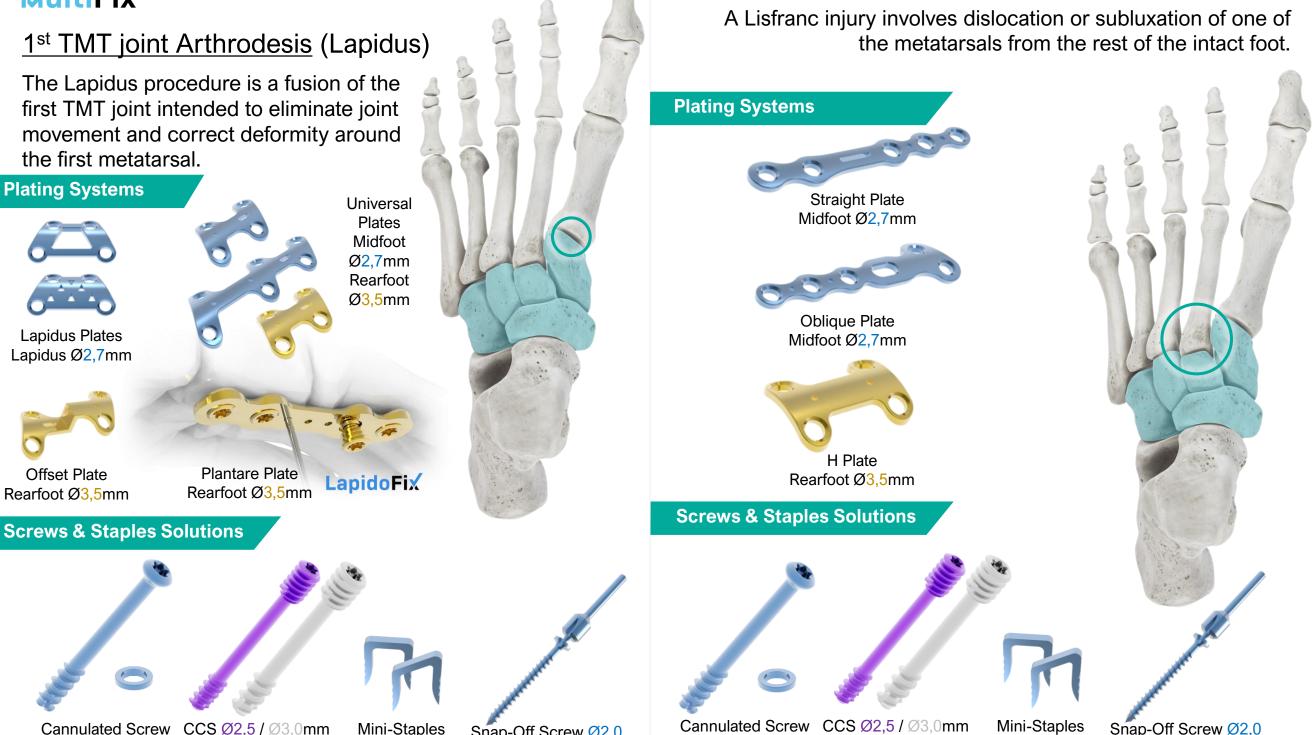
Lisfranc

Comprehensive Plating and Screws Solutions

Foot

Midfoot Procedures

MultiFix



CBS Ø2,7mm

Forefoot Ø2,7mm

Forefoot Ø2,7mm

Mini-Staples

Forefoot Ø2,7mm

Forefoot Ø2,7mm

Snap-Off Screw Ø2,0

Forefoot Ø2,7mm

31

CBS Ø2,7mm

Snap-Off Screw Ø2,0

Forefoot Ø2,7mm



Foot

Midfoot Procedures

MultiFix

Medial Column Arthrodesis

A medial column arthrodesis involves removing the joints between the navicular, medial cuneiform, and first metatarsal to reduce motion, correct deformity, and eliminate pain.



Comprehensive Plating and Screws Solutions

Medial Cuneiform Osteotomy (Cotton)

A cotton osteotomy is a medial cuneiform opening wedge osteotomy. It is commonly used in conjunction with other procedures to aid in the correction of flatfoot.





Foot

Rearfoot Procedures

MultiFix

Evan's Osteotomy

The Evans osteotomy is a lateral column lengthening osteotomy, preserving the calcaneocuboid joint.





Spacer Plate Forefoot Ø2,7mm

Spacer Plate Rearfoot Ø3,5mm

H Plate Rearfoot Ø<mark>3,5</mark>mm

Medial Displacements Osteotomy

Calcaneal sliding osteotomies are commonly performed to correct hindfoot deformity. The calcaneus can be translated in either a medial or lateral direction.



Spacer Plate Rearfoot Ø3,5mm



Cannulated Screw CBS Ø7,0mm

Cannulated Compression Screw CCS Ø6,0mm

Comprehensive Plating and Screws Solutions

Talo-Calcaneal Arthrodesis (Subtalar)

The subtalar joint (talocalcaneal joint) is a common source of arthritis, often seen in hindfoot deformity, inflammatory conditions, or following calcaneus fractures. An arthrodesis in this location fuses the joint to eliminate movement, thus helping to correct deformity and improve symptoms.



Astrolabe

Foot

Rearfoot Procedures

MultiFix

Talonavicular Arthrodesis

Talonavicular joint arthrodesis has been utilized for a variety of pathologies, including: arthritis, deformity, inflammatory conditions, and instability in the hindfoot

Plates & Screws Solutions



Universal Plate Rearfoot Ø3,5mm





Cannulated Screw CBS Ø7,0mm



Cannulated Compression Screw CCS Ø3,5mm CCS Ø6,0mm

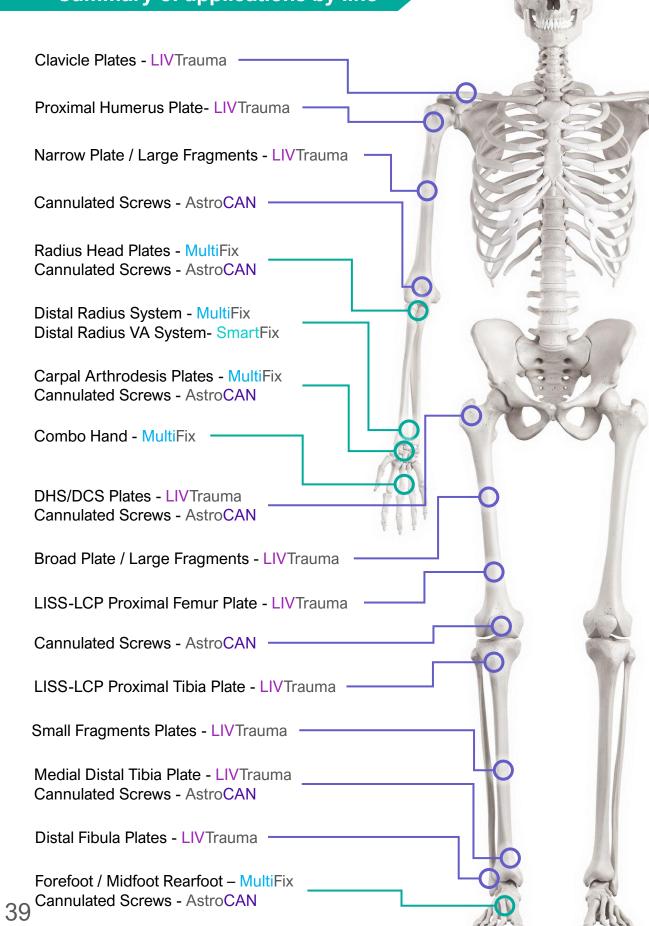
Comprehensive Plating and Screws Solutions

Calcaneal Fracture

Fractures of the calcaneus or heel bone most often occur after falls from heights or motor vehicle collisions. Treatment of calcaneal fractures may require surgery.



Summary of applications by line





For additional information, contact the Astrolabe authorized distributor in your region or through our customer service channels.

Customer Service (+351) 219 672 298 info@astrolabe-medical.com

Check out all the products on the website: <u>www.astrolabe-medical.com</u>

