

KAULMED

Orthopaedic *Solutions*



about us

KAUL-Medizintechnik GmbH is a German manufacturer and supplier of medical items. Being part of Auxein Group and its German representative, we use its strength and experience to offer excellent products and services.

With our international brand KAULMED our products and we are there
For the Surgeons.



History of "KAULMED"

2020

Construction of KAULMEDs new manufacturing facility has started. Bone Cement and a brand new wound closure system developed in Germany have been added to our portfolio. New catalogues have been designed and published.

2019

KAULMED Spine Solutions were successfully registered and will be dispatched during Q4. Also in 2019 KAULMED gets a new website as we consider this part of our service. At MEDICA 2019 KAULMED is published and made known to the international medical market, with overwhelming success.

2018

KAUL-Medizintechnik GmbH started manufacturing Spine Solutions under KAULMED brand to support a customer and his surgeons. End of 2018 registration of these products in customers country started.

2017

KAUL-Medizintechnik GmbH started its international brand KAULMED. Now the excellent products and services can be offered to customer all over the world.

2016

In 2016 KAUL-Medizintechnik GmbH company structure was modified to ensure enough resources will be available for the new international brand. Manufacturing capacity, customer and technical service have been increased to meet the demands of international customers.

2015

The board of directors decided to use their knowledge and experience of orthopaedic implants to establish a separate international brand.



Product Range

TRAUMATOLOGY

KT-P POWER TOOLS
KN-5H HUMERAL NAILING
KN-2T TIBIA NAILING
KN-2F FEMUR NAILING
KN-3 NAILING SYSTEM
KN-1 ADVANCED NAILING SYSTEM
KN-4 TYPE NAILING SYSTEM
KN-7 ELASTIC NAILING SYSTEM
KP-1 EPIPHYSEAL PLATE
KP-2 PEDIATRIC HIP PLATE
KL-8 DISTAL RADIUS & VOLAR RIM LOCKING SYSTEM
KL-8 ELBOW SYSTEM
KL-2 MODULAR HAND & FOOT SYSTEM - 1.5 | 2.0 | 2.4 | 2.7
KL-3 2.4mm DISTAL RADIUS SYSTEM
KL-4 3.5mm SMALL FRAGMENT SYSTEM
KL-5 5.0mm LARGE FRAGMENT SYSTEM
KT-7 DYNAMIC HIP COMPRESSION & **KT-4** ANGLE BLADES
KT-1 MINI FRAGMENT, **KT-2** SMALL FRAGMENT & **KT-3** LARGE FRAGMENT
KC CANNULATED SCREWS
KT-6 STAPLES, PINS & WIRES

HIP PROSTHESIS SYSTEM

KH-1 AUSTIN MOORE HIP PROSTHESIS
KH-2 BIPOLAR HIP PROSTHESIS
KH-3 THOMPSON HIP PROSTHESIS

EXTERNAL FIXATION SYSTEM

KX-EXTERNAL FIXATION SYSTEM

CRANIO MAXILLO FACIAL (CMF)

KF-1 1.0 | **KF-2/3** 1.5 | **KF-4-7** 2.0 | **KF-8** 2.4

SPINE SYSTEM

KS-1 5.5mm PEDICLE SCREW SYSTEM
KS-2 DUAL THREAD SCREW
KS-3 OCCIPITAL SYSTEM
KS-4 CAGE (TLIF)
KS-5 CAGE (PLIF)
KS-6 MESH CAGE
KS-7 ANTERIOR CERVICAL PLATE SYSTEM
KS-8 CERVICAL CAGE ACDF
KS-9 CERVICAL BLADED CAGE
KS-10 LOW PROFILE CAGE
KS-11 CAGE





KT-P Power Tools



Power Drill (for Trauma Surgeries)

Specifications

- Single handed operation of safety switch.
- Quick-connect attachments for changing accessories quickly.
- Variable speed control trigger for maximum control.
- Multiple battery pack options for various procedures.
- Single handed operation of Forward/Reverse mode switch.
- Totally sealed to allow use in a washer/sanitizer.
- For Sterilization, 120° over 30 minutes and 135° over 15 minutes.
- Battery Cover can be Sterilized.

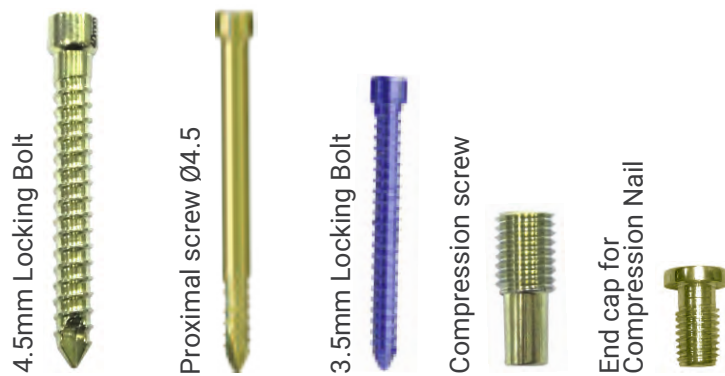
Kirschner Drill Attachments
(Ø2.0 - 4.0mm)



Kirschner Drill Attachments
(Ø0.7 - 1.6mm)



KN-5H Humerus Nailing System



Reconstruction Intramedullary Humeral Nail

- INTRAMEDULLARY OSTEOSYNTHESIS OF HUMERUS, consist of:
- Implants (intramedullary nail, locking screws, end cap or compression screw),
- Instrument set for implantation and extraction after finished treatment,
- Instruction on how to manage instrument set (surgical technique).

Intramedullary osteosynthesis of humerus provides stable fixation of fractured shaft of the bone.

- Pathological comminuted fractures,
- Difficult fractures with closed and opened (I grade) damages,
- Malunion of fractures of humeral shaft after treatment with other methods.

This system provides the following methods of intramedullary fixation depending on the type of humeral fractures



KN-2T Tibia Nailing System

Advanced solutions

Advanced proximal locking options: Three unique and innovative locking options, in combination with cancellous bone locking screws, increase the stability of the proximal fragment for proximal third fractures.

Two state of the art medio-lateral (ML) locking options enable primary compression or secondary controlled dynamization

0 mm 5 mm 10 mm 15 mm



- KN-2T Tibia Nail
- End Cap
- Locking Bolt, Ø4.4mm
- Locking Bolt, Ø4.8mm



Note: The use of a cannulated KN-2T Tibia Nail with a large diameter offering more stability associated with the reamed technique is generally recommended for pseudarthroses, tumours, mal-unions and non-unions.



KN-2F Femur Nailing System

6.4mm Hip Screws, Self Tapping
4.8mm Locking Screws for KN-2F FEMUR Nail
End Cap For KN-2F Femur Nail



KN-3 Nailing System (Type-II)

125° and 130°

Cephalic Screw with end cap

Ø6.4mm Cannulated Anti Rotation Screw

4.8mm Locking Screws

End Cap For KN-3 Nail with Anti-Rotation Screw

Inner Screw For KN-3 Nail with Anti-Rotation Screw

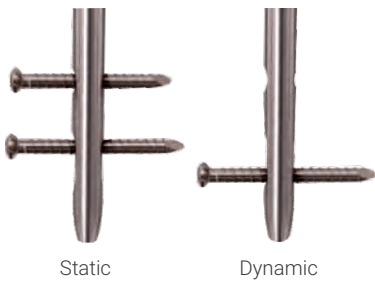


KN-3 Nailing Anti-rotation

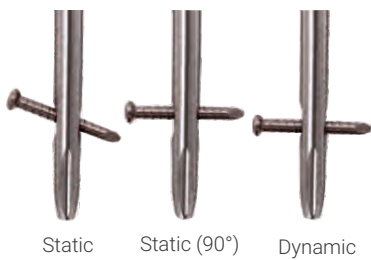


KN-1 Advanced Nailing System

KN-1 Long



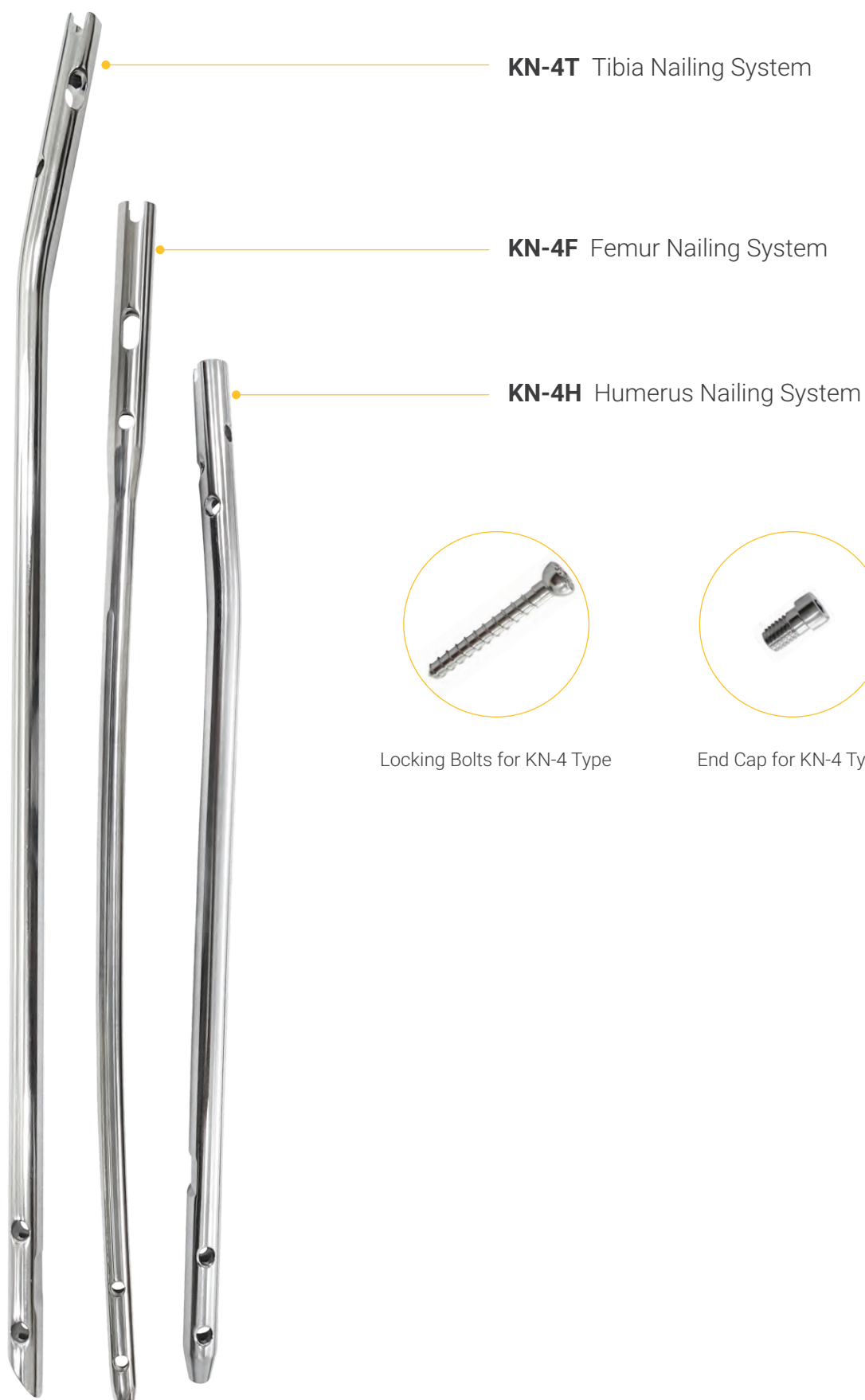
KN-1 Short



The KN-1 Nail has a medial-lateral angle of 5°
This allows insertion at the tip of the greater trochanter.

Optimal stress distribution
The flexible KN-1 tip eases insertion and
reduces stress on the bone at the tip of the
KN-1.





KN-7 Elastic Nail System

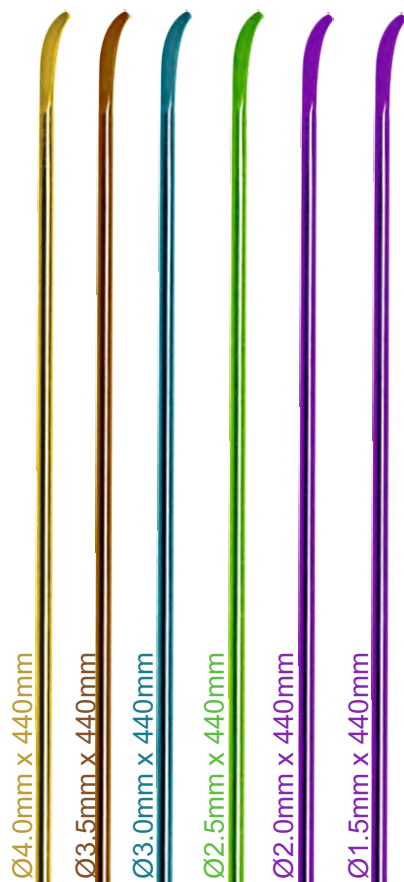
The **KN-7** Elastic Nails intended for fixation of diaphyseal fractures where the canal is narrow or flexibility of the implant is paramount.

This includes:

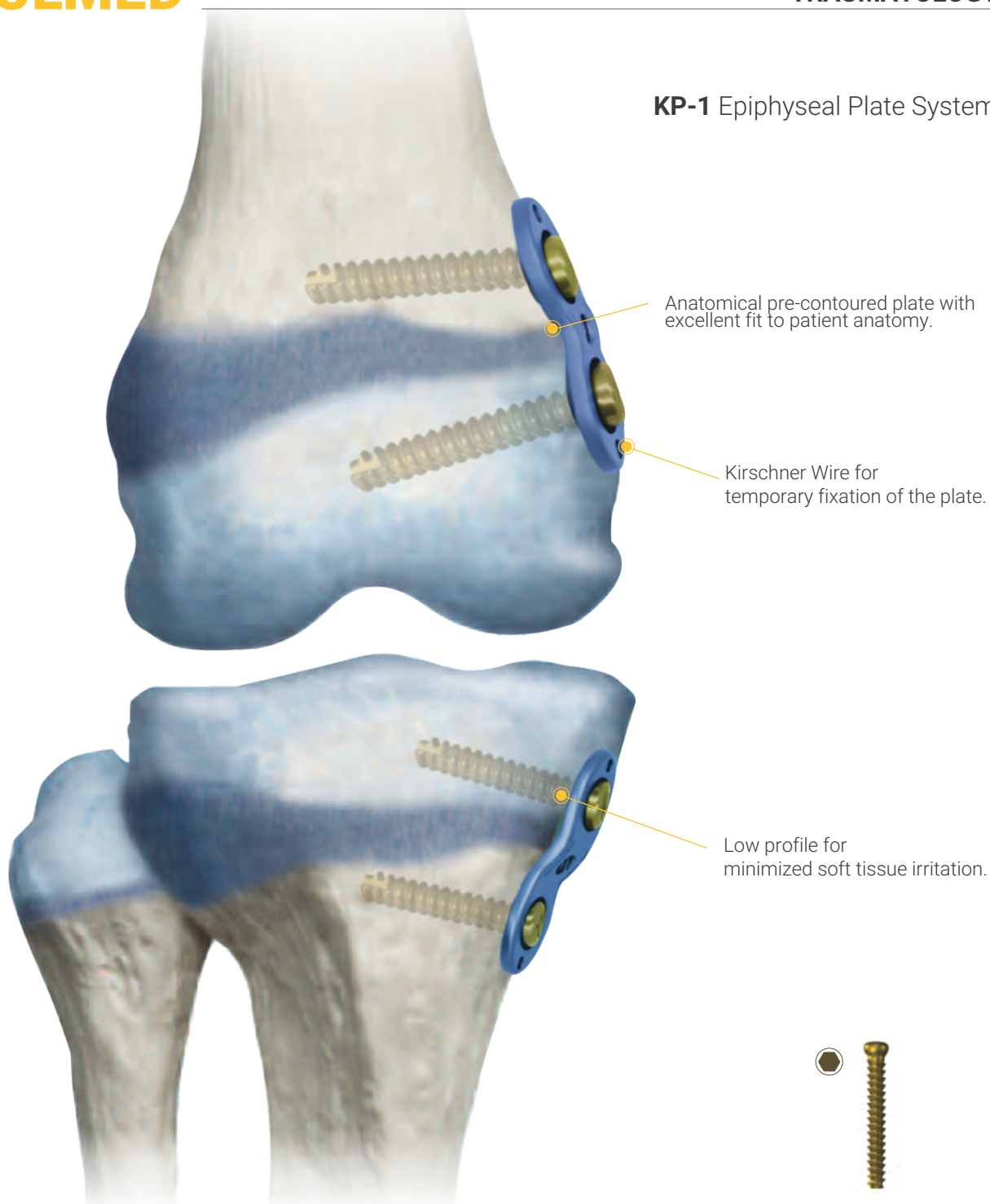
- lower extremity fractures in pediatric and small-statured patients
- upper extremity fractures in all patients

This system is also intended to treat metaphyseal and epiphyseal fractures, such as radial neck fractures, and is intended for fixation of small long bones, such as carpal and tarsal bones.

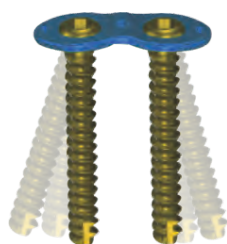
In pediatric applications, the flexibility of the KN-7 Elastic nail allows it to be inserted at a point which avoids disruption of the bone growth plate.



KP-1 Epiphyseal Plate System



4.5mm Cortex Screw, Self-tapping, Cannulated



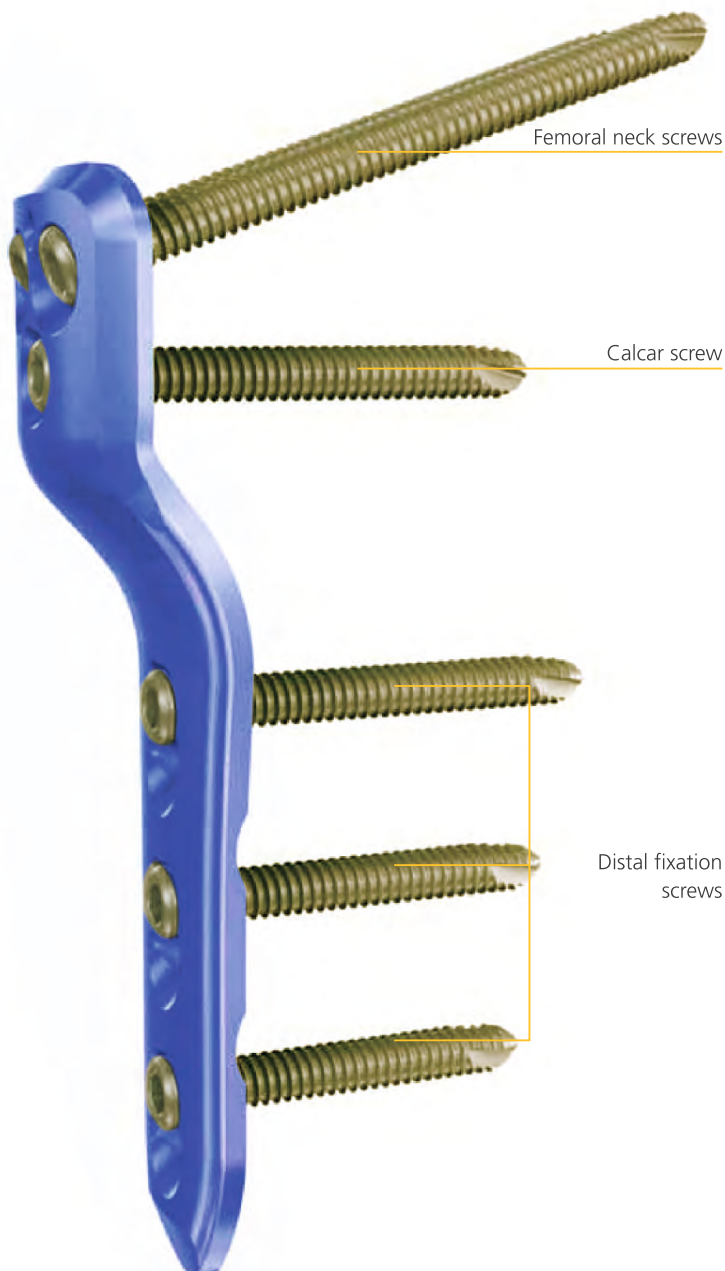
Diverging screws work as a hinge to facilitate physis growth and faster correction .

Cannulated design facilitate the screws inserting orientation with the help of kirschner wire.



KP-2 Pediatric Hip Plate

The plate has a universal design for the left and right proximal femur. The main characteristics of the implant system are three locking screws in the proximal part of the plate. Two femoral neck screws and an additional, diverging calcar screw ensure an excellent fixation in the bone. Three screws are for the fixation of the plate in the femoral shaft. The surgeon can select either locking screws or conventional cortex screws in the shaft as preferred. The implant is available in stainless steel.



The product range consists of eight plates: four small fragment plates 3.5 and four large fragment plates 5.0.

Plates for varisation osteotomy
The plates are available with screw angles of 100° and 110°.

Plate for valgisation osteotomy
The plate is available with a screw angle of 150°.

Plate for trauma and derotation osteotomy

The plate is available with a screw angle of 120° and 4 distal fixation screws.



KL-8 Distal Radius & Volar Rim Locking System

KL-8 2.4mm Two-Column Volar Distal Radius Locking Plate

Plate Features

Three Head sizes accommodate patient anatomy.

- Narrow 6-Hole Head (19.5mm)
- Standard 6-Hole Head (22mm)
- Wide 7-Hole Head (25.5mm)
- Anatomically contoured Volar Distal radius plates designed to address both simple and complex fractures
- KL-8 Locking Holes in the head of the plate combined with KL-8 Locking Screws offer a locked construct to support the articular surface and reduce the need for bone graft
- Manufactured in Titanium

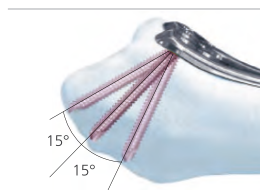
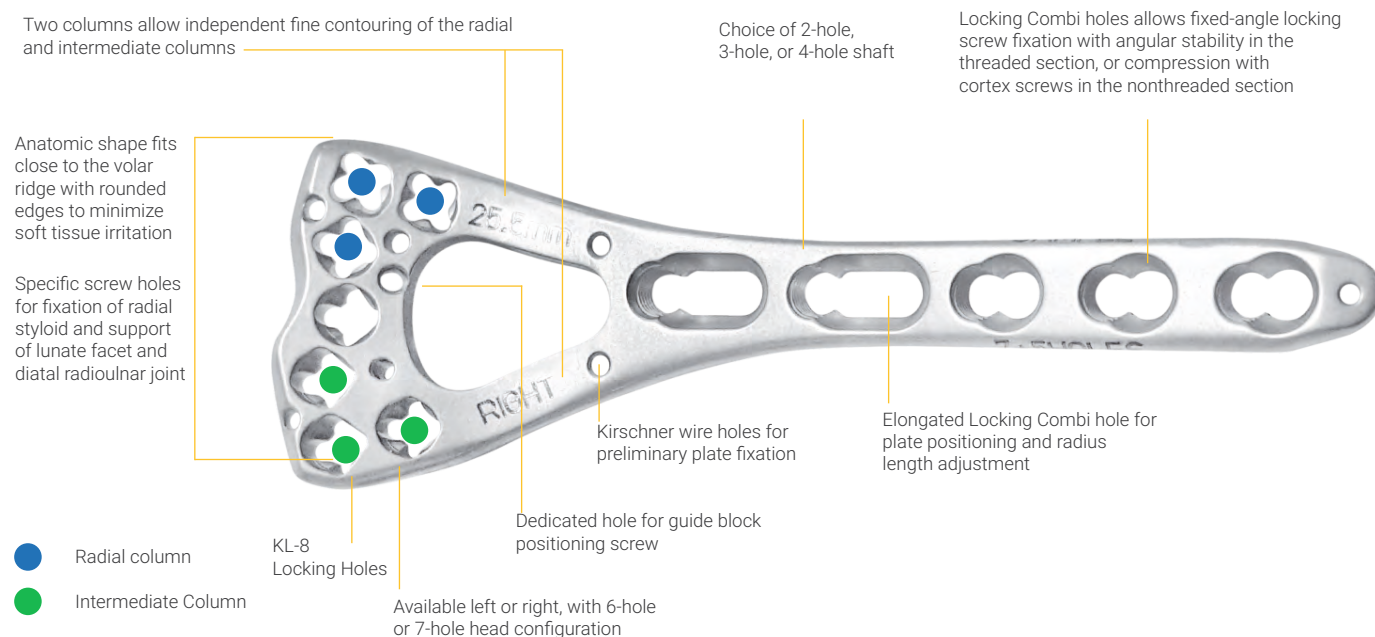
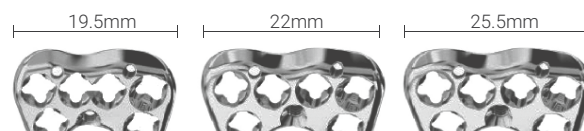


Figure 2



Figure 3



Figure 4



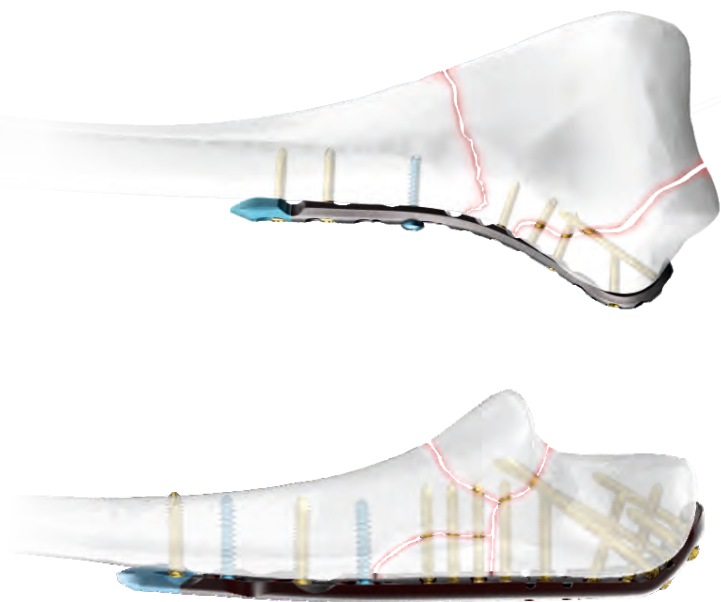
KL-8 Elbow System

Designed to reduce the risk of soft tissue irritation by taking into account the poor soft tissue coverage of the elbow, thereby improving the plate profile with an anatomical plate contour and enabling the screw heads to sit flush in the plate hole.

Offers simplicity and adaptability: KL-8 locking technology combines the simplicity of the established Locking screw insertion technique with the possibility of adapting screw angulations. Adaptability is enhanced during screw insertion by offering predefined screw angles while allowing

The KL-8 Elbow Plating System offers three main double-plating configurations for the distal humerus.

1. Medial Plate
2. Extended Medial Plate
3. Lateral Plate
4. Dorsolateral Plate
5. Dorsolateral Plate, with lateral support



Three Types of Olecranon Plates

Proximal ulna plates enable the surgeon to address the specific biomechanical requirements of each fracture pattern while minimizing irritations of the adjacent soft tissue.

1. Proximal Olecranon Plate
2. Olecranon Plate
3. Extra-articular Proximal Ulna Plate



KL-2 Modular Hand & Foot System

Adaptable Locking Plates for Various Indications

The modular Hand & Foot Locking System offers a wide range of anatomical and adaptable plates. All Implants are available in Titanium.

Hand & Foot Locking Implants are intended for the following indications:

1.5mm Hand Locking System

- Fractures, osteotomies and arthrodeses of the phalanges and metacarpals
- Replantations and reconstructions of the phalanges and metacarpals

2.0mm Hand Locking System

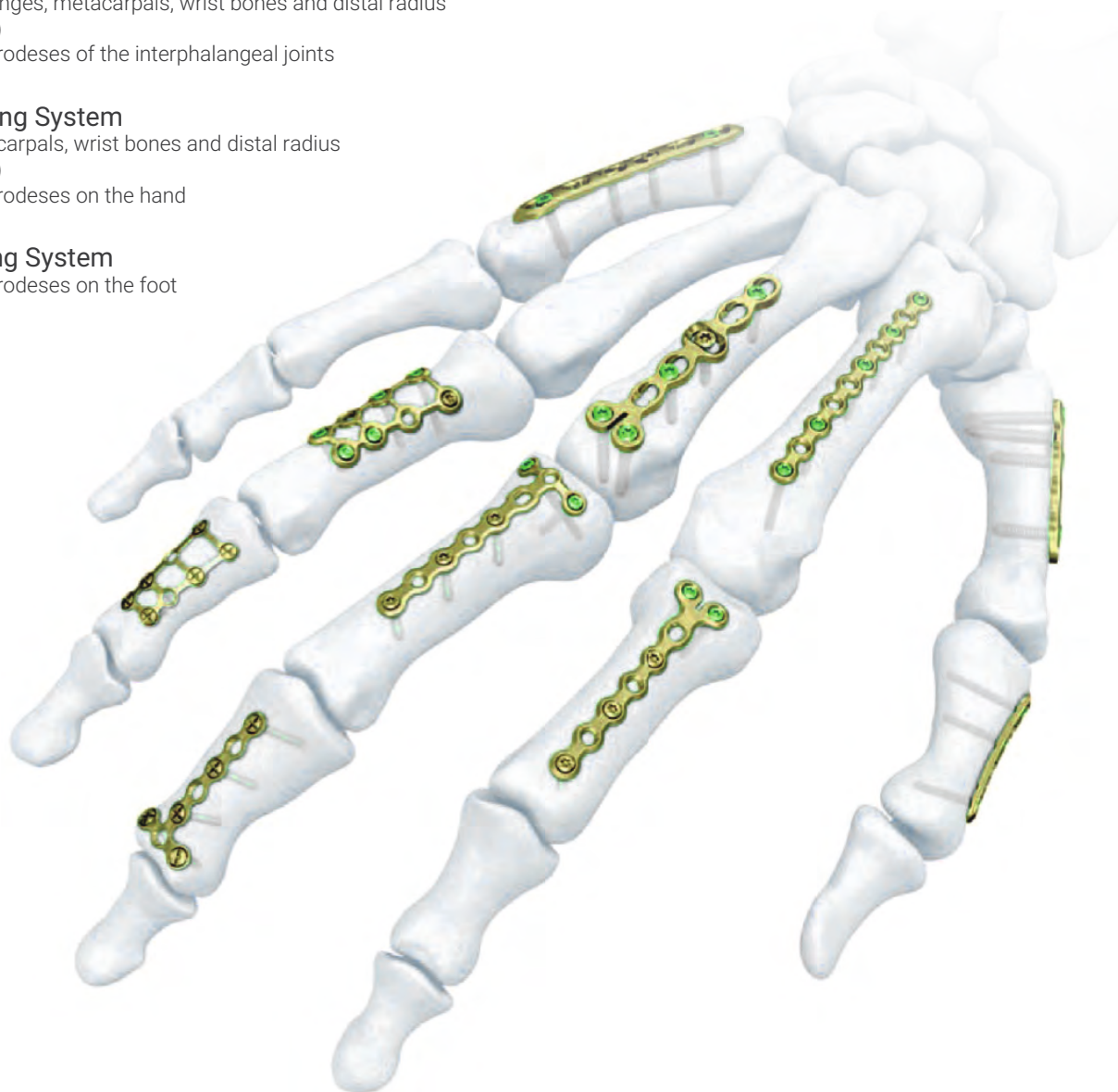
- Fractures of the phalanges, metacarpals, wrist bones and distal radius (double-plate technique)
- Osteotomies and arthrodeses of the interphalangeal joints

2.4mm Hand Locking System

- Fractures of the metacarpals, wrist bones and distal radius (double-plate technique)
- Osteotomies and arthrodeses on the hand

2.7mm Foot Locking System

- Osteotomies and arthrodeses on the foot



KL-3 2.4mm Distal Radius System



Screws



Star Head



Hexagonal Head



Plates

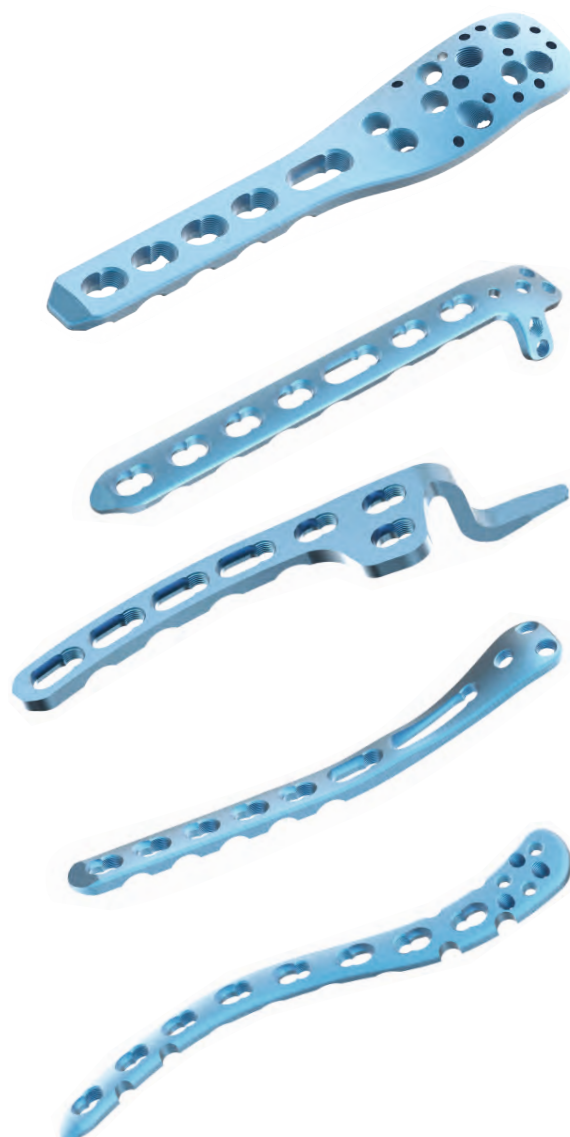


KL-4 3.5mm Small Fragment System

Screws



Plates



3 different hook depths
12, 15 and 18mm



KL-5 5.0mm Large Fragment System



Screws



Plates



KT-7 Dynamic Hip Compression & KT-4 Angle Blade System



95° DCS Plate



130° Angle Blade Plate, Blade



Dynamic Hip Compression Plate

DHS Plates
DCS Plates
Angle Blade Plates
Jewett Nail Plates

DHS/DCS Screws (with Compression Screws)



KT-1 Mini Fragment

Plates/Screws



KT-2 Small Fragment

Plates/Screws



KT-3 Large Fragment

Plates/Screws



KC Cannulated Screws

KC-2 3.0mm Cannulated Cancellous Screws, Short Thread

KC-2 3.0mm Cannulated Cancellous Screws, Long Thread

KC-3 3.5mm Cannulated Cortical Screws, Short Thread

KC-3 3.5mm Cannulated Cortical Screws, Full Thread

KC-3 3.5mm Cannulated Cortical Screws, Short Thread, Self Tapping

KC-3 3.5mm Cannulated Cortical Screws, Full Thread, Self Tapping

KC-4 4.0mm Cannulated Cancellous Screws, Short Thread

KC-4 4.0mm Cannulated Cancellous Screws, Full Thread

KC-4 4.0mm Cannulated Cancellous Screws, Short Thread, Self Tapping

KC-4 4.0mm Cannulated Cancellous Screws, Full Thread, Self Tapping

KC-5 4.5mm Cannulated Cortical Screws, Short Thread

KC-5 4.5mm Cannulated Cortical Screws, Full Thread

KC-5 4.5mm Cannulated Cortical Screws, Short Thread, Self Tapping

KC-5 4.5mm Cannulated Cortical Screws, Full Thread, Self Tapping

KC-7 7.0mm Cannulated Cancellous Screws, 16mm Thread

KC-7 7.0mm Cannulated Cancellous Screws, 32mm Thread

KC-7 7.0mm Cannulated Cancellous Screws, Full Thread

KC-6 6.5mm Cannulated Screws, 16mm Thread, Self Drilling

KC-6 6.5mm Cannulated Screws, 32mm Thread, Self Drilling

KC-6 6.5mm Cannulated Screws, Full Thread, Self Drilling

KC-8 7.3mm Cannulated Cancellous Screws, 16mm Thread, Self Drilling

KC-8 7.3mm Cannulated Cancellous Screws, 32mm Thread, Self Drilling

KC-8 7.3mm Cannulated Cancellous Screws, Full Thread, Self Drilling

KC-5 4.5mm Cannulated Cortical Screws, Full Thread

Drill Bit: 3.2mm
Drill Bit for Gliding Hole: 4.5mm
Cannulation: 1.75mm
Guide Wire: 1.6mm



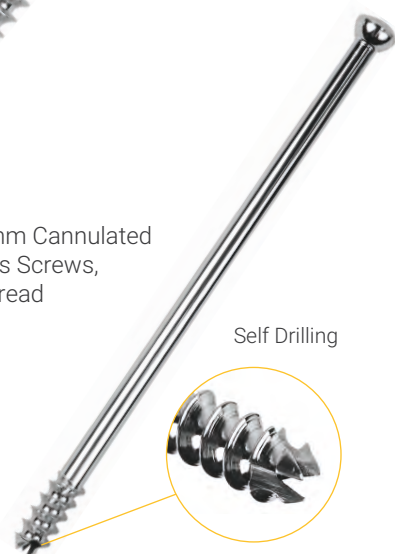
KC-6 6.5mm Cannulated Screws,
32mm Thread, Self Drilling

Thread Diameter 6.5mm
Drill Bit for Threaded Hole 5.0mm
Shaft Diameter 4.8mm
Core Diameter 4.5mm
Hexagonal Socket Width 4.0mm
Head Diameter 8.0mm
Cannulation 2.9mm
Reverse Cutting Flutes



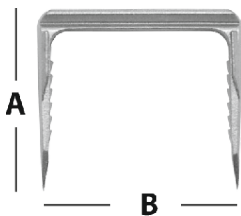
KC-7 7.0mm Cannulated
Cancellous Screws,
32mm Thread

Self Drilling

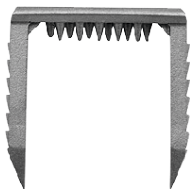


KT-6 Staples, Pins & Wire

Used for Tibial Valgus Osteotomy
Used on Knee



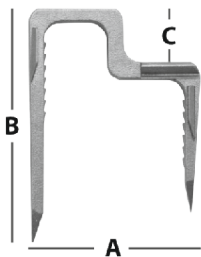
Ligament Staples



Staples U - Type



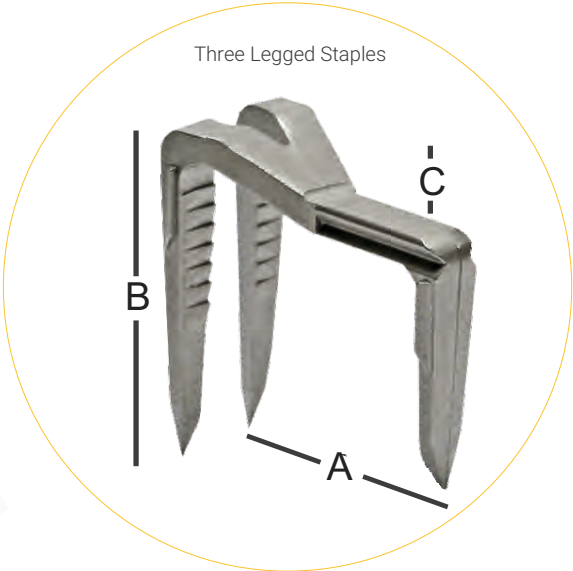
Staple with Offset



Staples - Coventry



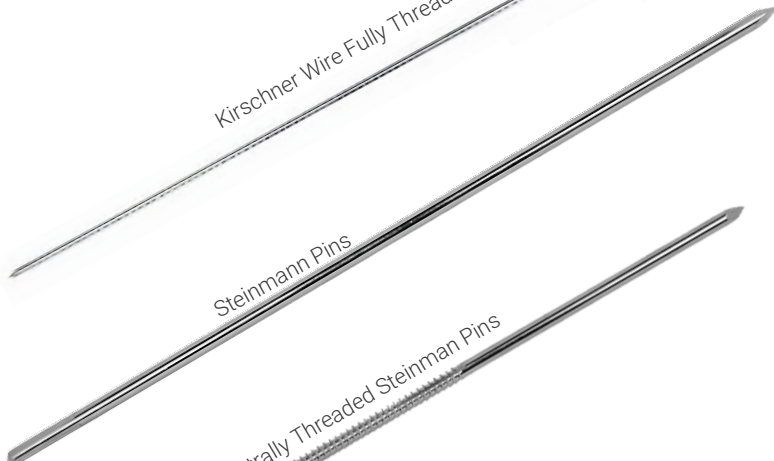
Three Legged Staples



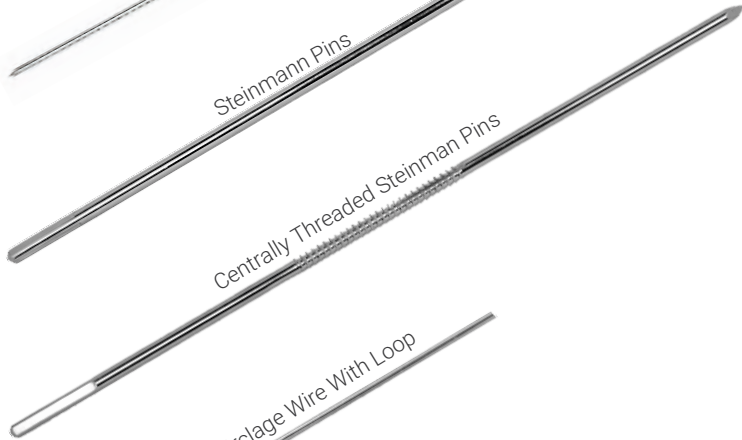
Kirschner Wire Fully Threaded



Steinmann Pins



Centrally Threaded Steinman Pins



Circulage Wire With Loop



Suture Wire



KH-1 Austin Moore Hip Prosthesis

KH-1 Austin Moore Hip Prosthesis, Step Ball, Regular Finish
KH-1 Austin Moore Hip Prosthesis, Step Ball, Satin Finish
KH-1 Austin Moore Hip Prosthesis, Standard Stem, Regular Finish
KH-1 Austin Moore Hip Prosthesis, Standard Stem, Satin Finish
KH-1 Austin Moore Hip Prosthesis, Narrow Stem, Regular Finish
KH-1 Austin Moore Hip Prosthesis, Narrow Stem, Satin Finish
KH-1 Austin Moore Hip Prosthesis, Broad Stem, Regular Finish
KH-1 Austin Moore Hip Prosthesis, Broad Stem, Satin Finish
KH-1 Austin Moore Hip Prosthesis, Long Stem, Regular Finish
KH-1 Austin Moore Hip Prosthesis, Long Stem, Satin Finish

**KH-2** BiPolar Hip Prosthesis

KH-2 Bipolar Hip Prosthesis, Non Perforated
KH-2 Bipolar Hip Prosthesis, Perforated

**KH-3** Thompson Hip Prosthesis

KH-3 Thompson Hip Prosthesis, Standard Stem, Regular Finish
KH-3 Thompson Hip Prosthesis, Standard Stem, Satin Finish
KH-3 Thompson Hip Prosthesis, Full Collar, Regular Finish
KH-3 Thompson Hip Prosthesis, Full Collar, Satin Finish
KH-3 Thompson Hip Prosthesis, Plain Stem, Regular Finish
KH-3 Thompson Hip Prosthesis, Plain Stem, Satin Finish
KH-3 Thompson Hip Prosthesis, Narrow Stem, Regular Finish, Sterile
KH-3 Thompson Hip Prosthesis, Narrow Stem, Satin Finish



KX-External Fixation System



Mini Fixators



Hybrid Fixation System
and Ring Fixator



Dynamic Axial Fixator



Pelvic Fixator



KF-Cranio Maxillo Facial (CMF) System

Neuro | Facial | Mandible | Orthognathic



CMF System a plating platform for internal fixation of the cranio maxillo facial skeleton addressing neuro, craniofacial, mandibular, and orthognathic surgery. It is simple, yet comprehensive system that offers flexibility and ease of use.

- All screws work with all plates within each CMF System.
- Reduced plate/screw profile.
- Standardized instrumentation.

Indications:

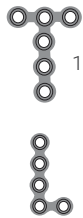
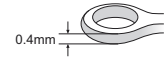
KAULMED's CMF system is intended for oral, maxillofacial surgery:

- Trauma
- Reconstruction surgery
- Orthognathic Surgery (surgical correction of dentofacial deformities).



KF-1 1.0mm Bone Plate System

Repair and fixation of fracture of cranial base, orbital floor, nasofrontal region and maxillofacial zone of children



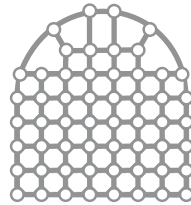
1.0mm T-Plate



1.0mm Double Y Plate



1.0mm Self Tapping Screws



1.0mm Orbital Floor Plate, Type-II

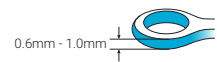


1.0mm Orbital Floor Plate, Type-VI

1.0mm L-Plate, 90°

KF-2 / KF-3 1.5mm Bone Plate System

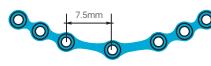
- Fixation of fracture of zygoma and zygomatic arch, eyepit, maxillary
- Correction and fixation of osteotomy of maxillary and mandible



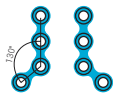
1.5mm Plate, 6 Holes



1.5mm T-Plate, Oblique



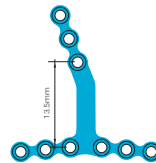
1.5mm Orbital Plate, 7 Holes



1.5mm L-Plate without Bridge, 130°



1.5mm Double X-Plate, Small



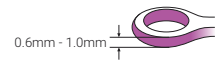
1.5mm T-Gap Plate, Angled



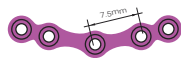
1.5mm Orbital Floor Plate, Type-VI

KF-4 / KF-5 / KF-6 2.0mm Bone Plate System

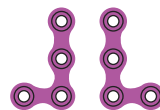
- Fracture of Midface, correction and fixation of maxillary
- Fracture of maxillary and mandible, fixation of orthognathia and osteotomy



2.0mm Straight Plate, 6 Holes, Type-II



2.0mm Orbital Plate with Bridge, Type-II



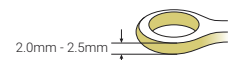
2.0mm L-Plate without Bridge, Type-II, 90°



2.0mm Self Tapping Screws

KF-8 2.4mm Bone Plate System

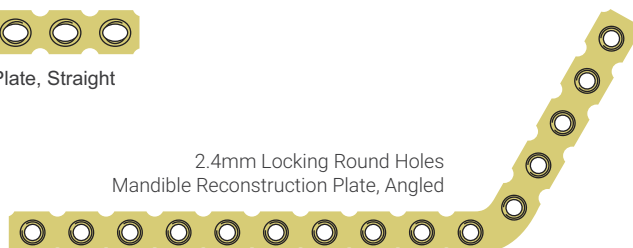
- Reconstruction and fixation of defect of mandible
- Fracture of mandible, fixation of osteotomy



2.4mm Locking Two-Way Mandible Reconstruction Plate, Straight



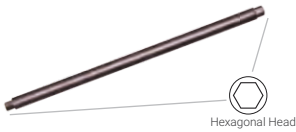
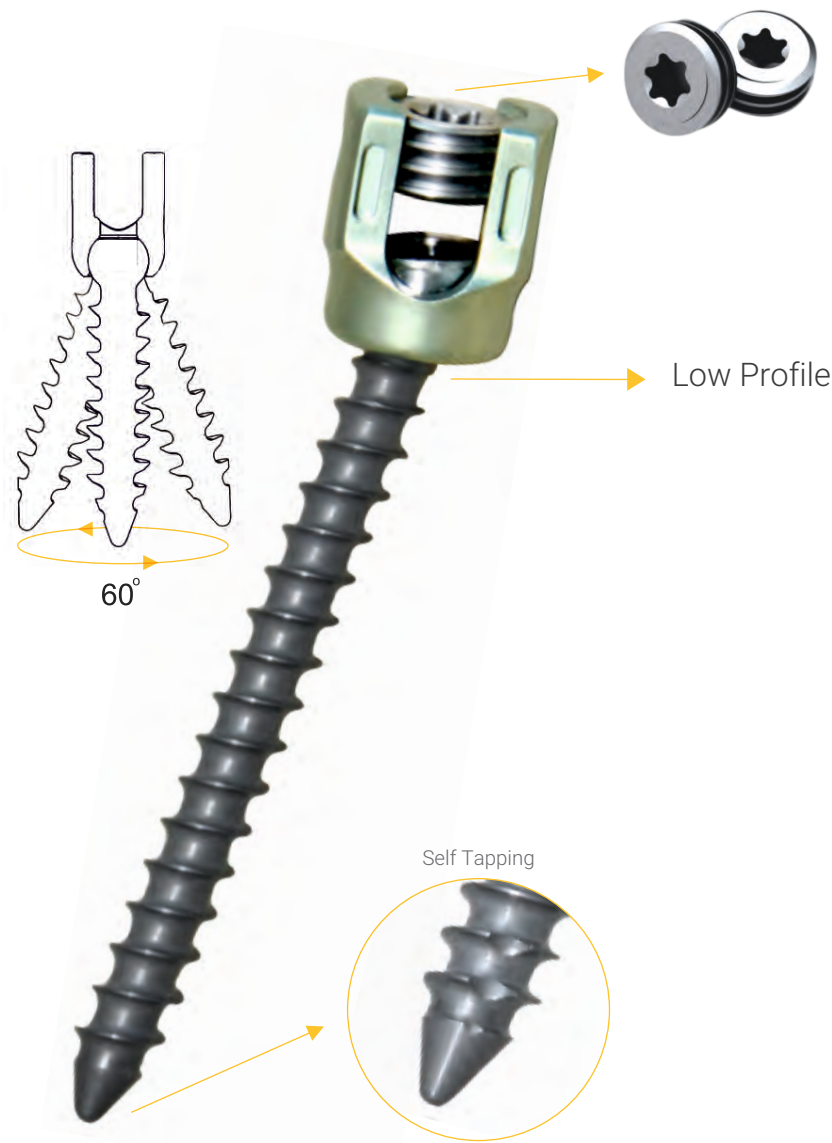
2.4mm Self Tapping Screws



2.4mm Locking Round Holes Mandible Reconstruction Plate, Angled



KS-1 5.5mm Pedicle Screw System



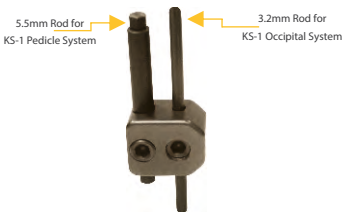
Ø 5.5mm, KS-1 - Rod



KS-1 - Crosslink-I



KS-1 - Crosslink-II



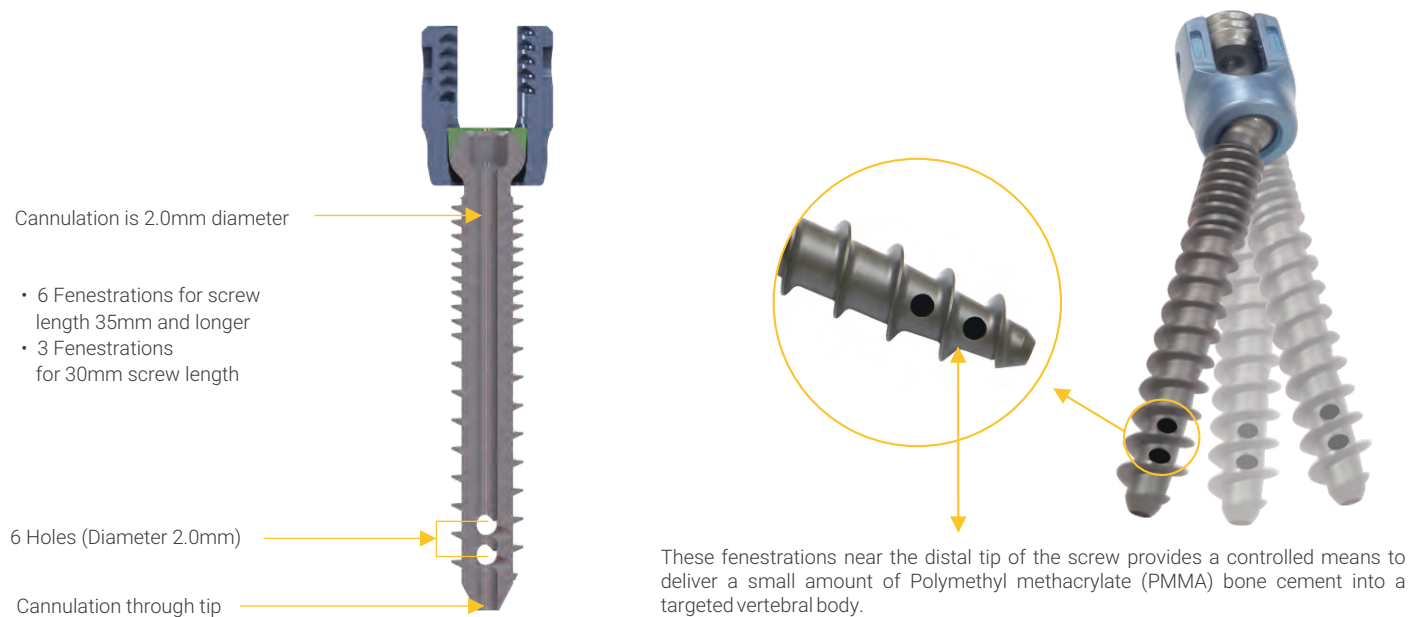
Universal Connector



Colour Parameters as per Ø

Pink	Silver	Green	Blue	Golden	Brown
Ø 4.5	Ø 5.0	Ø 5.5	Ø 6.0	Ø 6.5	Ø 7.0

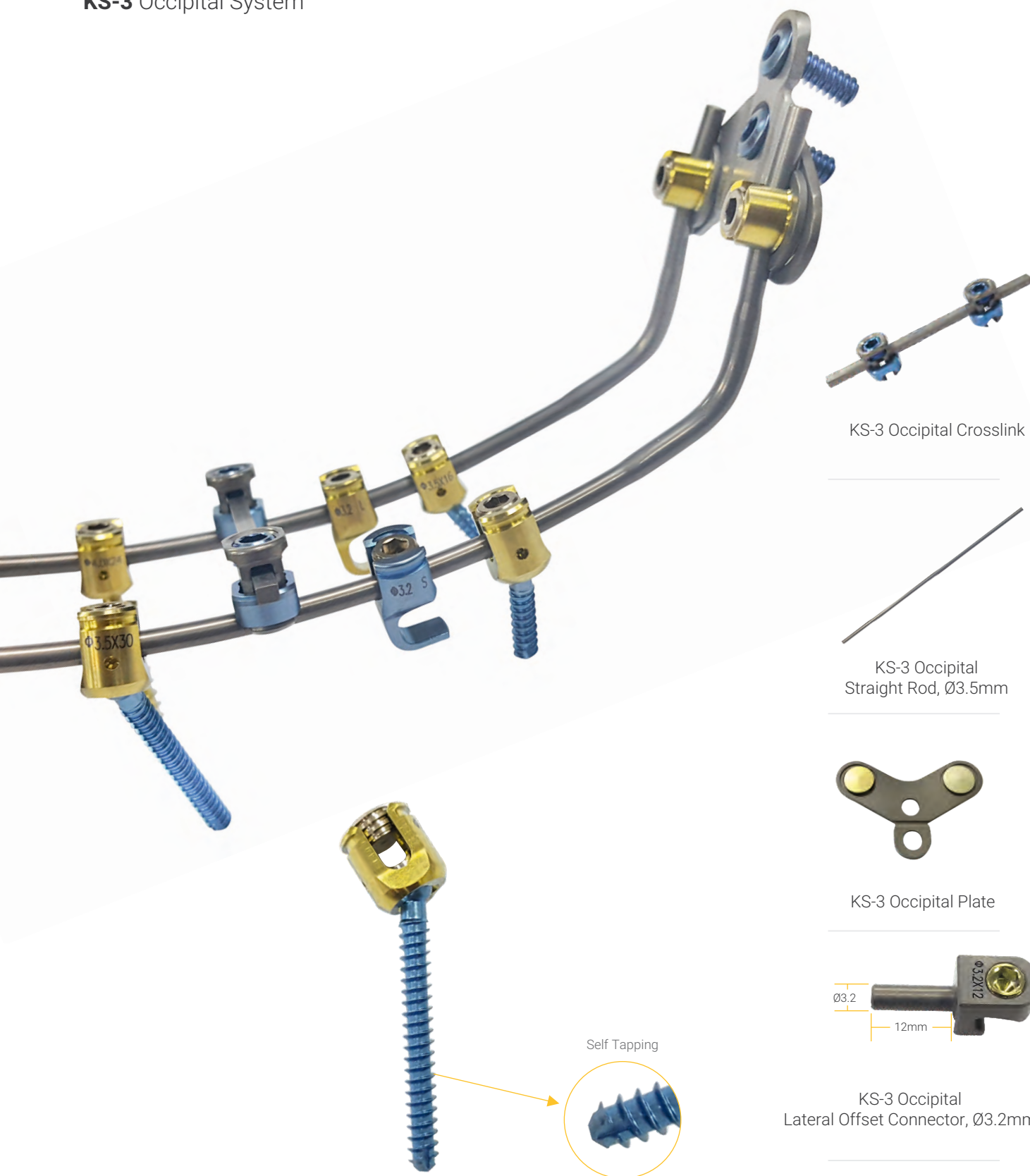


KS-2 Pedicle Screw System**Multiaxial Pedicle Fenestrated Dual Thread Screw**

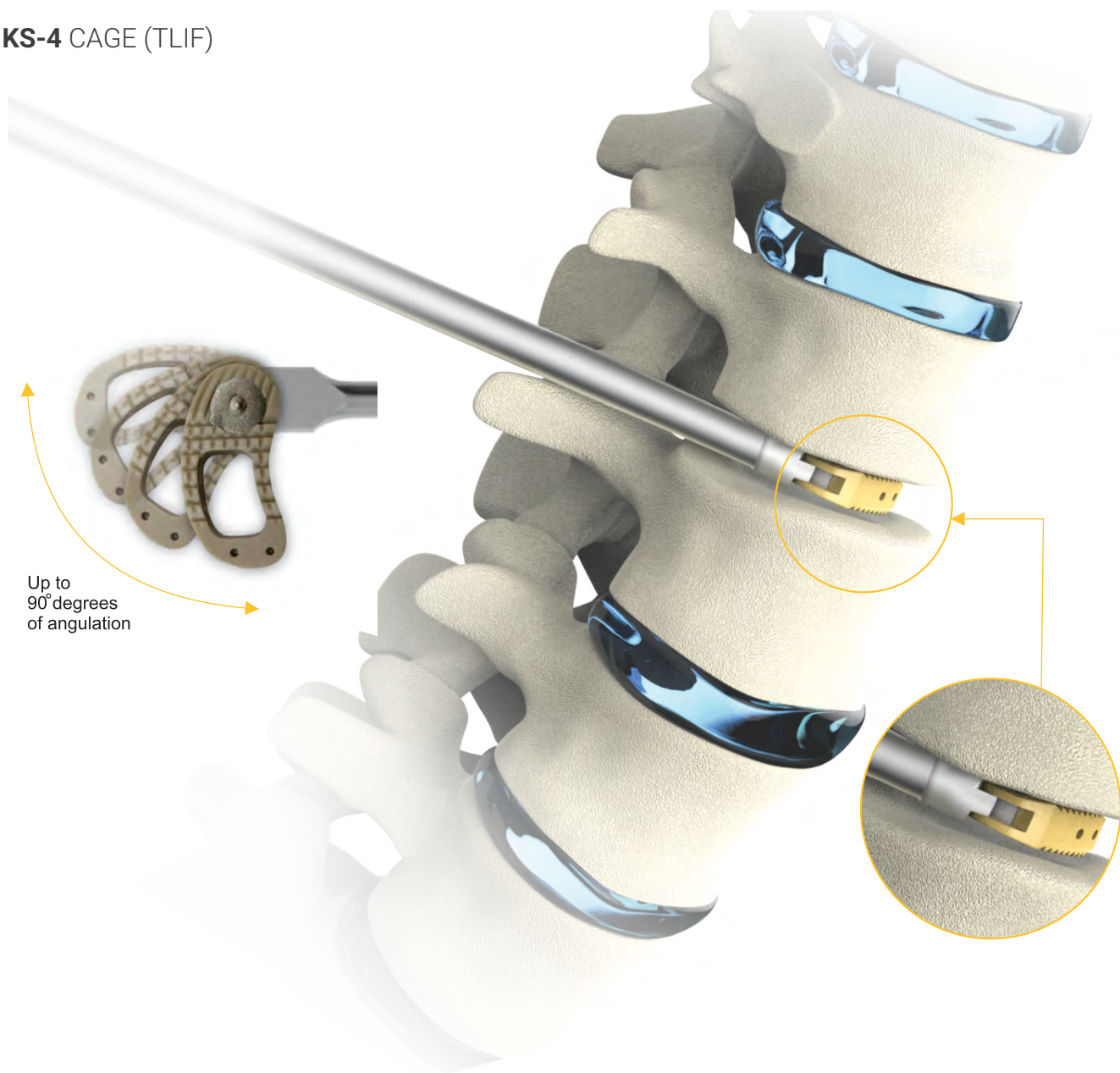
These screws are used to correct deformity, and/or treat trauma. The screws may also be used to immobilize part of the spine (T1-L5) to assist fusion by holding bony structures together.



KS-3 Occipital System



KS-4 CAGE (TLIF)

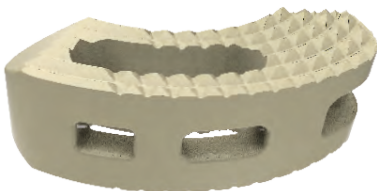


available in:

STERILE R



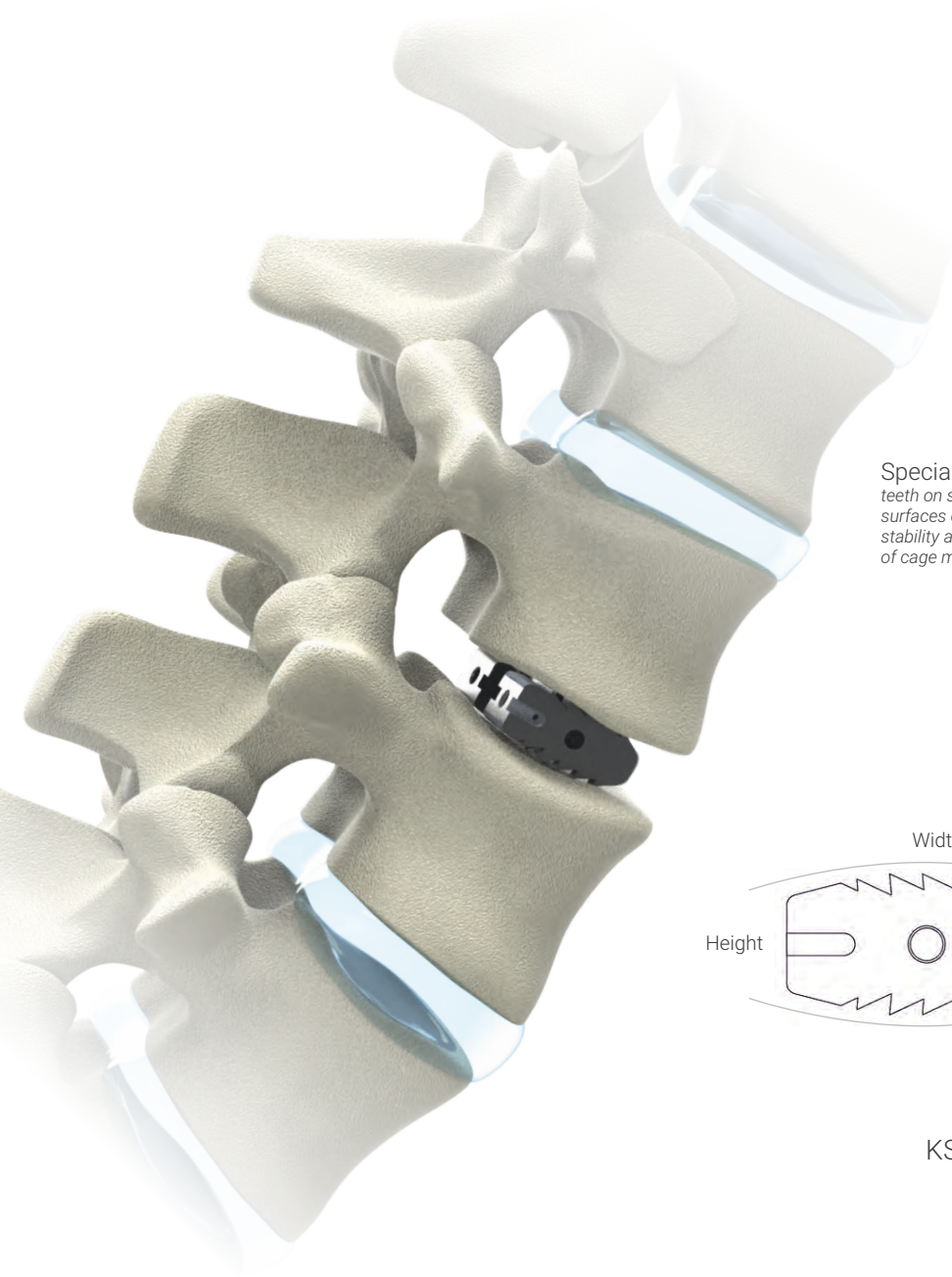
TITANIUM



PEEK OPTIMA

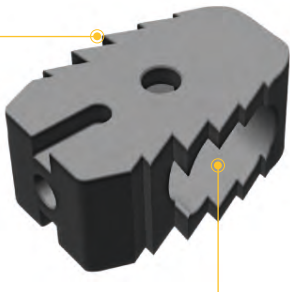


KS-5 Lumbar CAGE (PLIF)

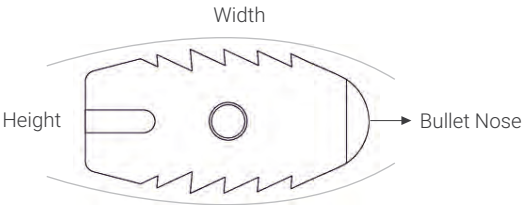


KS-5 Lumbar Cage (PLIF)

Specially Aligned Teeth
teeth on superior and inferior
surfaces ensure good primary
stability and reduce the risk
of cage migration



Axial Window
Accommodates autogenous bone graft or bone graft
substitute to allow fusion to occur through the cage



KS-5 Lumbar Cage (PLIF)

PEEK OPTIMA



available in:

STERILE R



Pin



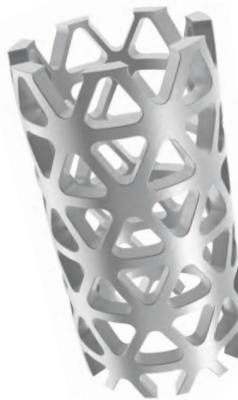
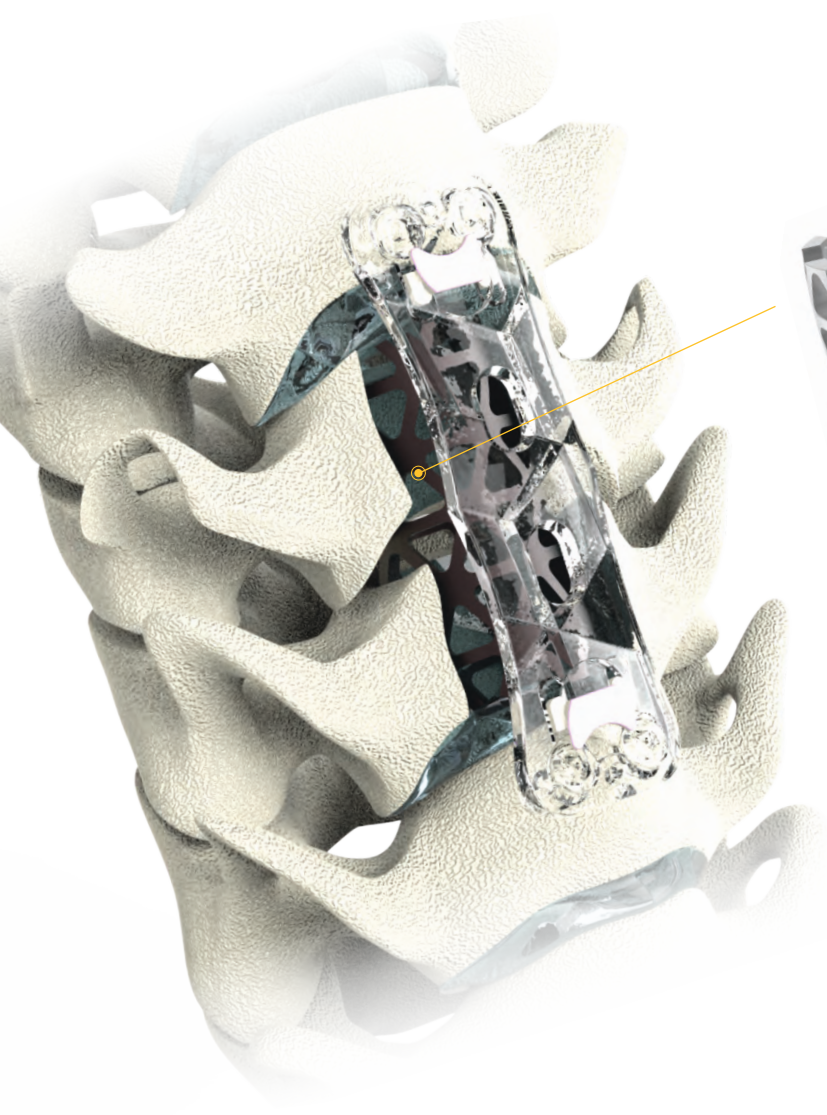
KS-6 Mesh Cage

KS-6 T-Mesh Cage | KS-6 Mesh Cage

Integral Ring Incorporated into Mesh Pattern
 -Less Deformation During Impaction and Even Stress Distribution

Contoured Edges

- Less Risk of Damaging Soft Tissues
- Smooth Insertion
- Easier Manipulation into Tight Spaces



KS-6 Mesh Cage

50% Great Wall Thickness

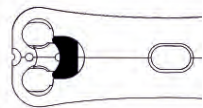
Integral Ring Incorporated into Mesh Pattern
 -Less Deformation During Impaction and Even Stress Distribution

Contoured Edges

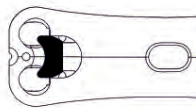
- Less Risk of Damaging Soft Tissues
- Smooth Insertion
- Easier Manipulation into Tight Spaces



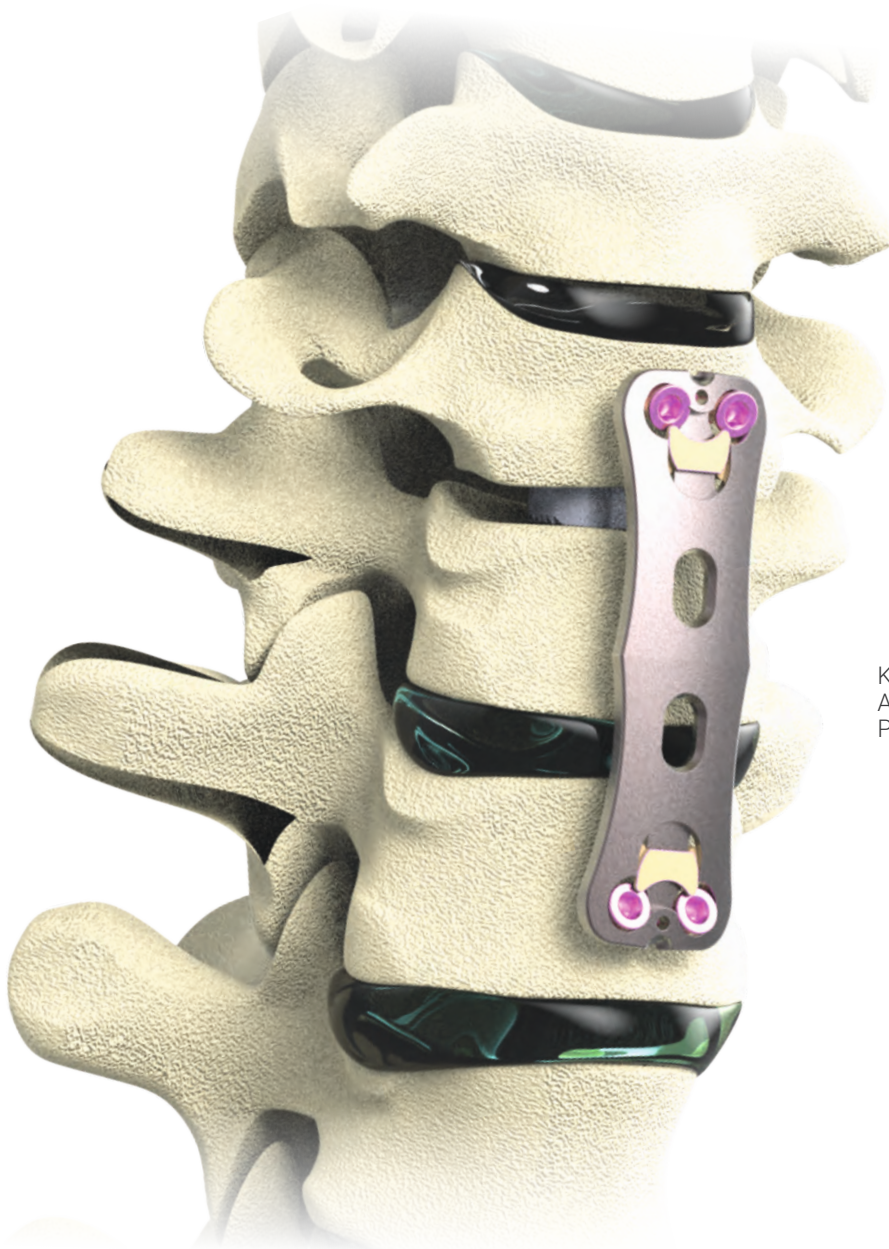
KS-7 Anterior Cervical Plate



Unlocked

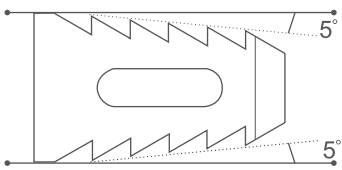


Locked

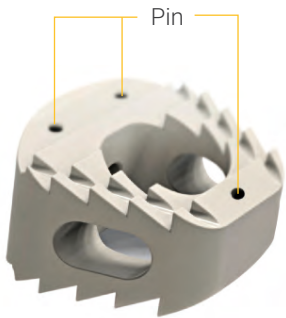


KS-7
Anterior Cervical
Plate System

KS-8 Cervical Cage ACDF

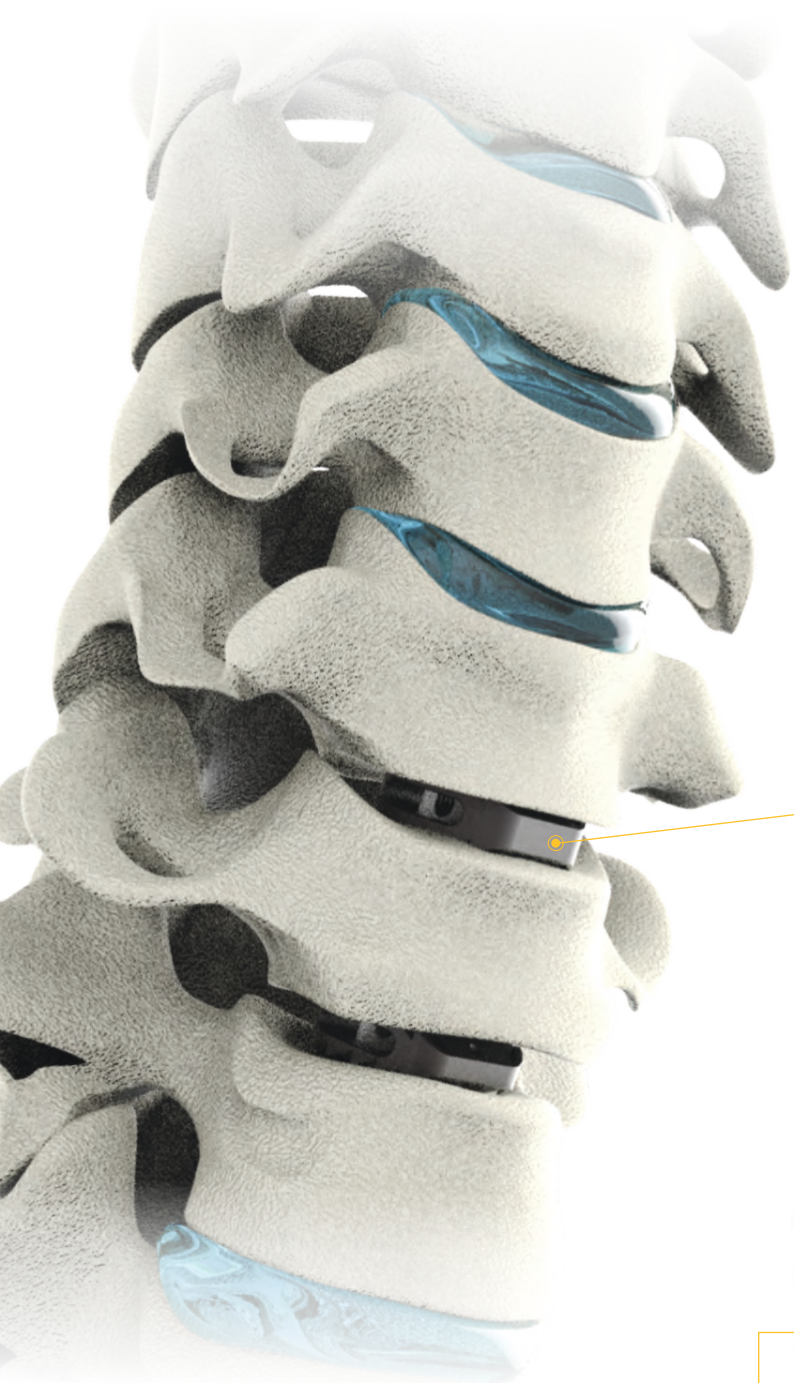


PEEK OPTIMA



available in:

STERILE | R



Teeth
to prevent migration

Large Center Opening
allows more area for bone graft
(to endplate contact)

Lateral Openings
facilitates vascularization



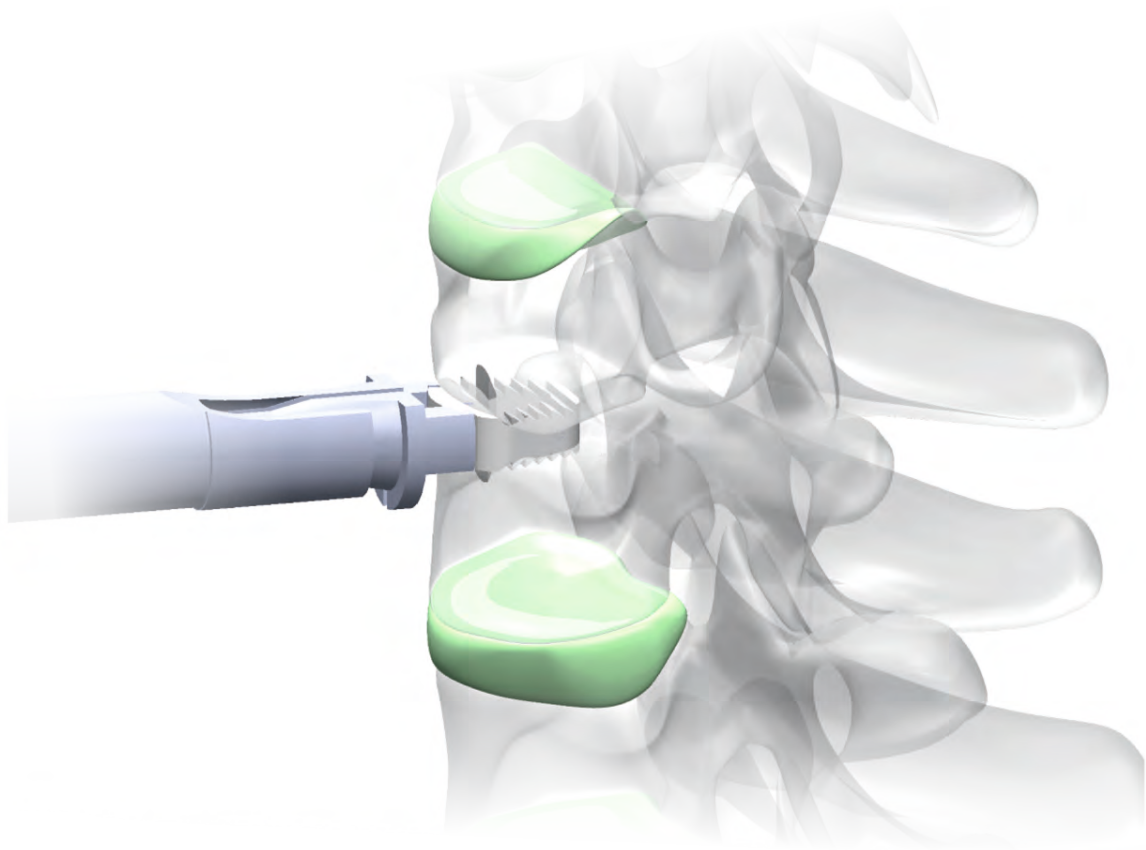
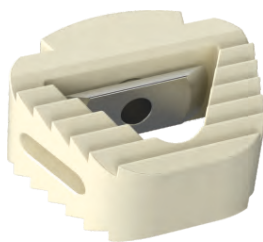
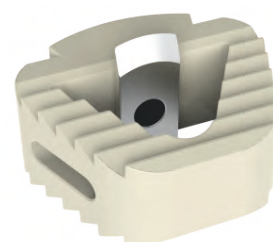
KS-9 Cervical Bladed Cage

Fig (A)



Normal Position

Fig (B)



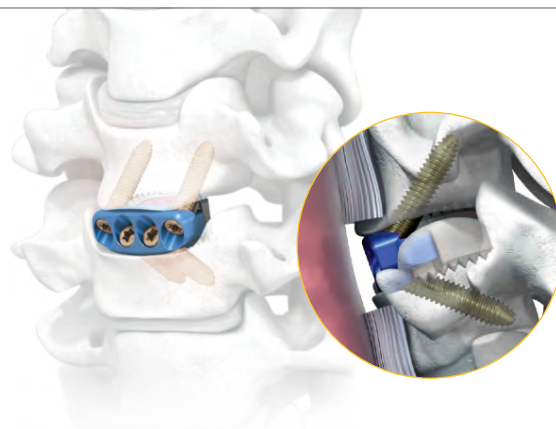
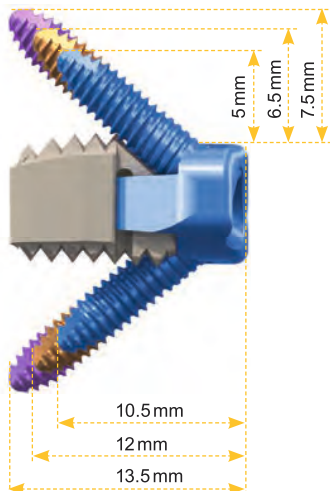
Locking Position

The KS-9-Cervical Bladed Cage is indicated for use in inter body fusion of the Cervical Spine.

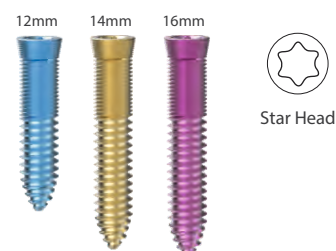
- It provides primary and secondary stability locking mechanism without the need of anterior plate fixation.
- The blade penetrates into the vertebral column and prevents primary and/or secondary micro movements, advancing the fusion of the graft with vertebra.
- Helps in reducing the duration of wearing the Cervical collar.



KS-10 Low Profile Cage



3.0mm Titanium Cervical KS Locking Screw



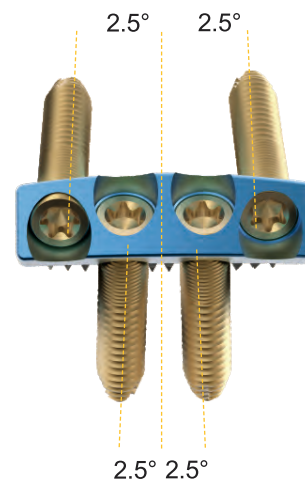
KS-10 Low Profile Cage Spacer is a stand alone Implant for use in Cervical interbody fusion, which combines the functionality of a cervical interbody spacer with the benefits of an anterior Cervical Plate.

PEEK Interbody Space

- Radiopaque marker for posterior visualization during imaging
- Spacer component is made of pure medical grade PEEK-OPTIMA (Polyether ether ketone)
- Teeth on the superior and inferior implant surfaces provide initial stability

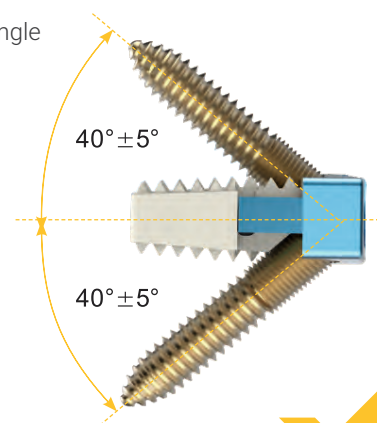
Titanium Alloy Plate Provides a secure, rigid screw locking interface

- Stresses in the plate are decoupled from the spacer through an innovative interface



Locking Head Screws

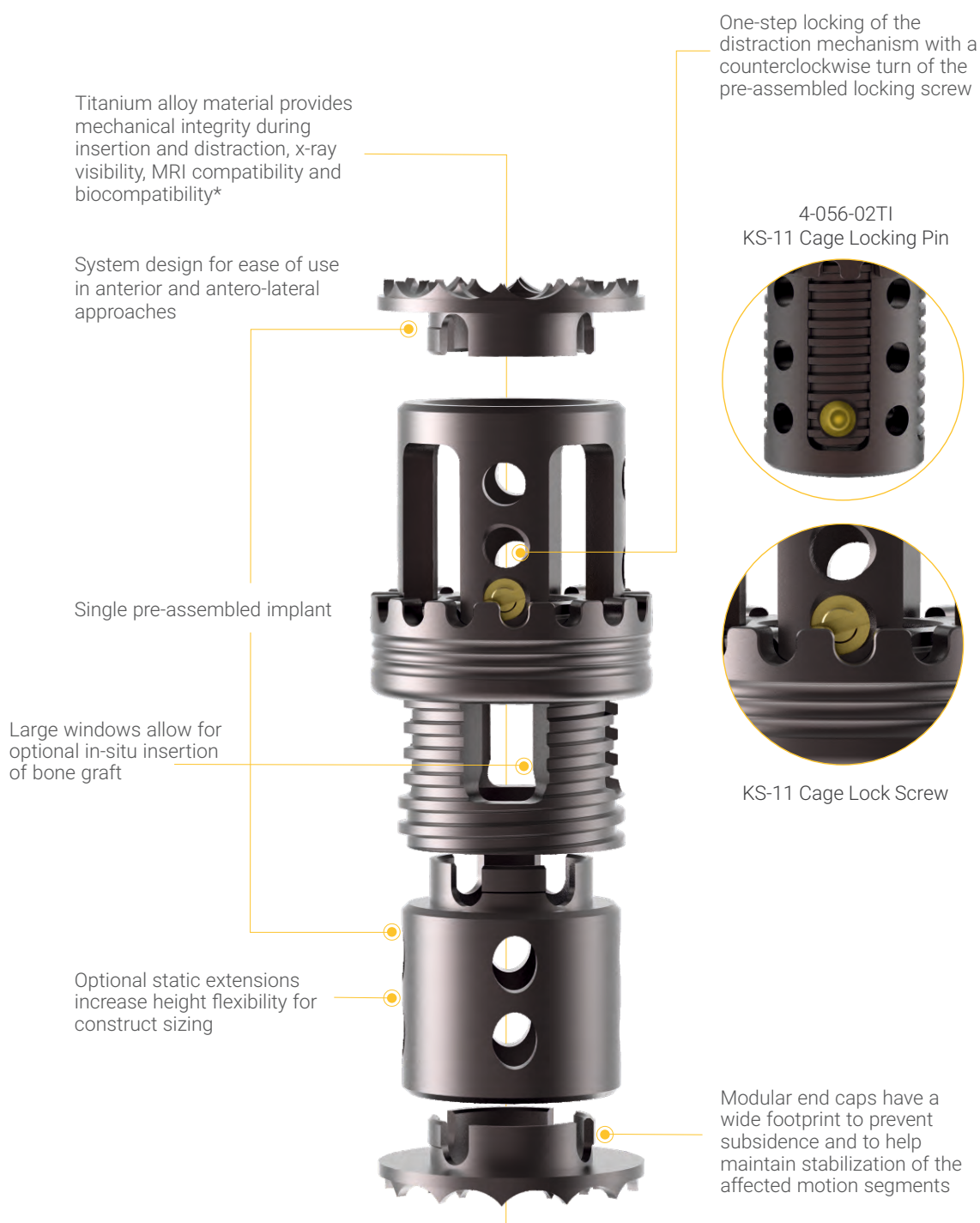
- Screws form a bone wedge with a $40^\circ \pm 5^\circ$ cranial/caudal angle and 2.5° medial/lateral angle
- One-step locking screws
- Self-tapping screw improves thread purchase
- Trilobular thread-cutting flutes are self-centering



KS-11 Cage

Vertebral Body Replacement System

The KS-11 Cage Vertebral Body Replacement System consists of a Distractible In Situ (DIS) implant, which enables the surgeon to customize the height of the implant after implantation. The pre-assembled KS-11 Cage implant distracts with a low profile inside thread design. Extensions (if needed) and modular end caps snap into each end of the implant for quick assembly. The end caps are available in 0° or with angulation to match either the lordosis or kyphosis of the spinal segment. The implant and end caps are composed of titanium alloy.



KAULMED

KAUL-Medizintechnik GmbH

Josef-Görres-Platz 2, 56068 Koblenz | Germany
Phone: +49 261 3011 332 | Fax: +49 261 3011 111 | Web : www.kaulmed.com

HRB 24579 AG Koblenz | USt-IdNr.: De299657301
Bankers: Deutsche Bank AG | IBAN: DE65 3007 0010 0048 4113 00 | BIC: DEUTDEDDXXX

