



Asnis Micro

Cannulated Screw System

Operative Technique

- 2.0mm & 3.0mm

Foot & Ankle



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This publication sets forth detailed recommended procedures for using Stryker Osteosynthesis devices and instruments.

It offers guidance that you should heed, but, as with any such technical guide, each surgeon must consider the particular needs of each patient and make appropriate adjustments when and as required.

A workshop training is recommended prior to first surgery.

All non-sterile devices must be cleaned and sterilized before use. Follow the instructions provided in our reprocessing guide (L24002000). Multi-component instruments must be disassembled for cleaning. Please refer to the corresponding assembly/disassembly instructions.

For additional information please refer to the Instructions For Use (IFU), Ref.-No. 90-01971 delivered with each implant and IFU, Ref.- No. 90-01972 delivered with each instrument. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Warning:
Fixation Screws:
Stryker Osteosynthesis bone screws are not approved or intended for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic or lumbar spine.

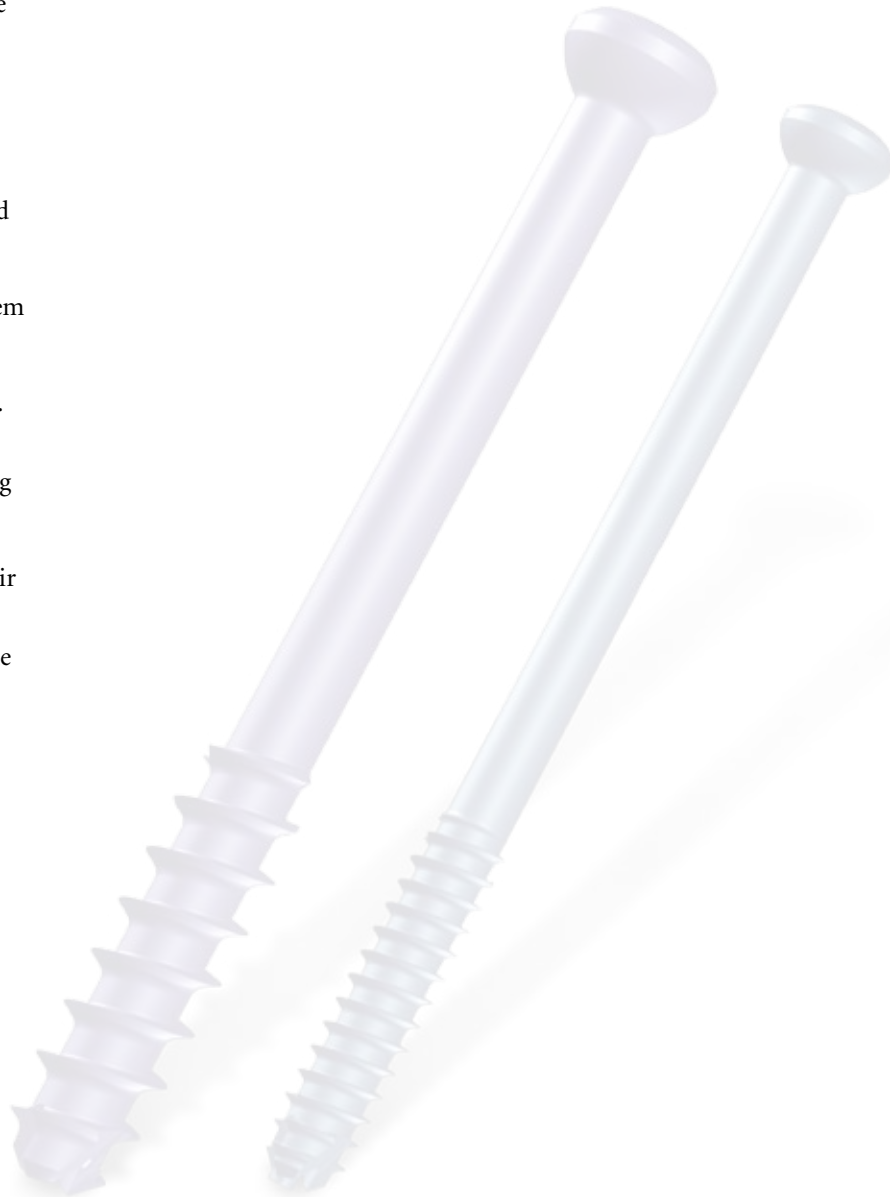
Introduction

Cannulated Screws have a long history in Orthopaedic surgery. Along with the arthroscope and image intensifier, cannulated screws have been a major facilitator of minimally invasive surgery. Extensive surgical exposure of bone fragments and intensive soft tissue stripping have been changed to a minimally invasive percutaneous procedure.

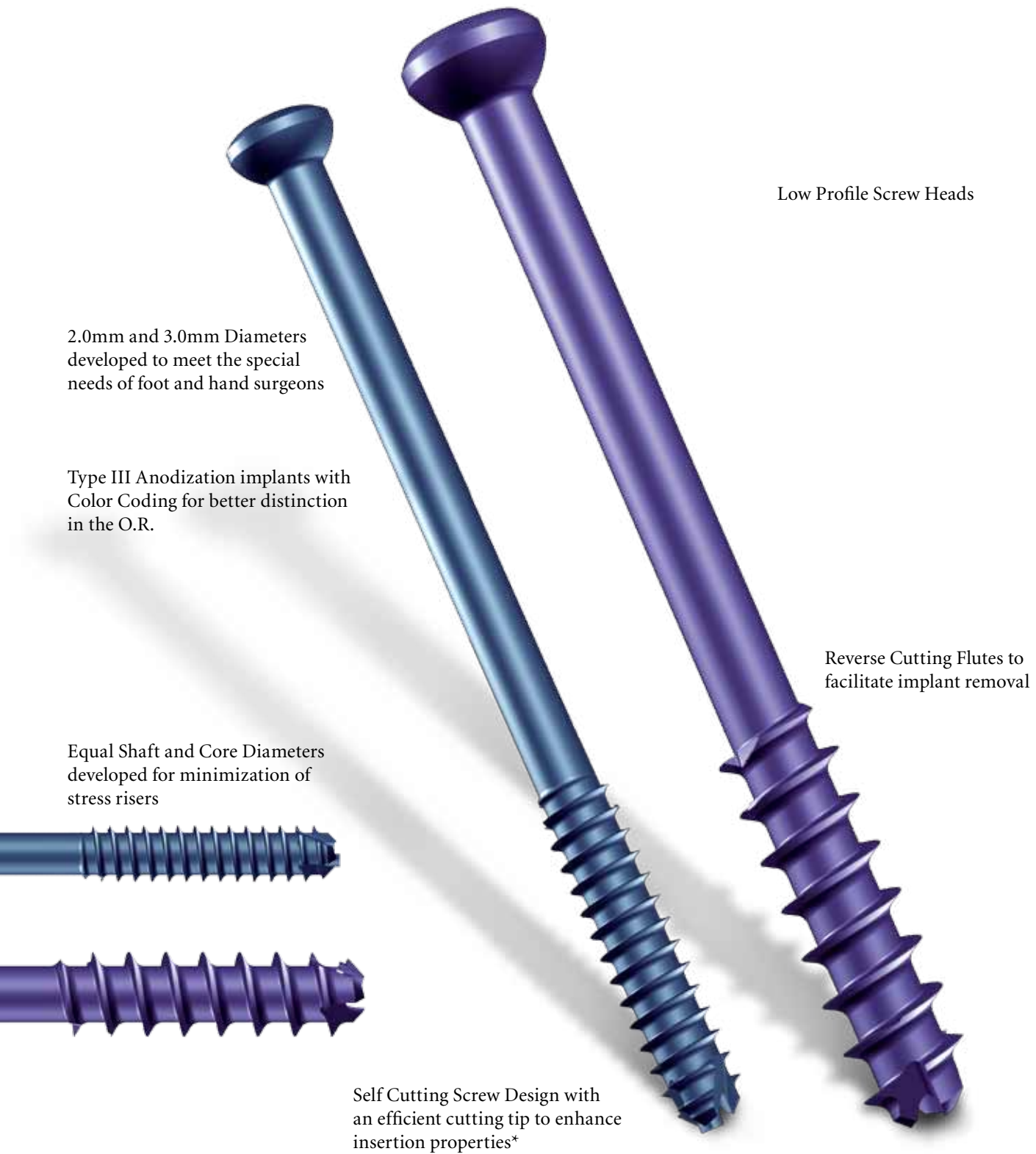
The Asnis Micro 2.0mm and 3.0mm cannulated titanium screws dedicated for foot and hand surgery offer an effective solution for trauma and reconstructive indications. The Asnis Micro System is designed to facilitate surgical procedures by simplifying screw placement, insertion and removal.

Small screw diameters, with low profile screw heads and the cutting characteristics of the Asnis Micro Cannulated Screws are combined to meet the surgeons' needs in their daily practice.

These important features make the Asnis Micro a system of choice.



Features and Benefits



*Asnis III Operative Technique previous OUS version: Literature Number- 90-17001

Indications, Precautions & Contraindications

Intended Use

The Asnis TM III Cannulated Screw System is intended for fracture fixation of small and long bones and of the pelvis. The system is not intended for spinal use.

Warnings and Precautions

Warning

Implant Selection and Sizing:
The correct selection of the fracture fixation appliance is extremely important. Failure to use the appropriate appliance for the fracture condition may accelerate clinical failure. Failure to use the proper component to maintain adequate blood supply and provide rigid fixation may result in loosening, bending, cracking or fracture of the device and/or bone. The correct implant size for a given patient can be determined by evaluating the patient's height, weight, functional demands and anatomy. Every implant must be used in the correct anatomic location, consistent with accepted standards of internal fixation.

Fixation Screws:

Stryker Osteosynthesis bone screws are not approved or intended for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic or lumbar spine. Stryker Osteosynthesis Implants are not compatible with magnetic resonance imaging (MRI) techniques, unless specified otherwise in the Product Labelling or respective Product Technical Guides.

Caution

Federal law (U.S.A.) restricts this device to sale by or on the order of a licensed physician.

Indications

The indications for use of these internal fixation devices include:

- Bone fracture fixation
- Osteotomy
- Arthrodesis
- Correction of deformity
- Revision procedures where other treatments or devices have been unsuccessful
- Bone reconstruction procedures

Contraindications

The physician's education, training and professional judgement must be relied upon to choose the most appropriate device and treatment. Conditions presenting an increased risk of failure include:

- Any active or suspected latent infection or marked local inflammation in or about the affected area.
- Compromised vascularity that would inhibit adequate blood supply to the fracture or the operative site.
- Bone stock compromised by disease, infection or prior implantation that can not provide adequate support and/or fixation of the devices.

- Material sensitivity, documented or suspected.
- Obesity. An overweight or obese patient can produce loads on the implant that can lead to failure of the fixation of the device or to failure of the device itself.
- Patients having inadequate tissue coverage over the operative site.
- Implant utilization that would interfere with anatomical structures or physiological performance.
- Any mental or neuromuscular disorder which would create an unacceptable risk of fixation failure or complications in postoperative care.
- Other medical or surgical conditions which would preclude the potential benefit of surgery.

Note:

For additional information please refer to the Instructions For Use (IFU), Ref.-No. 90-01971 delivered with each implant and IFU, Ref.-No. 90-01972 delivered with each instrument

Operative Technique

Asnis Micro General Considerations



Guide Wire Insertion

Insert the K-Wire using the Double Drill Guide at the entry point of the final screw placement to the appropriate depth.

Note:

In case of dense cortical bone, puncture the proximal cortex before inserting the K-Wire, by using the solid drill bit manually or by power according to the screw diameter chosen

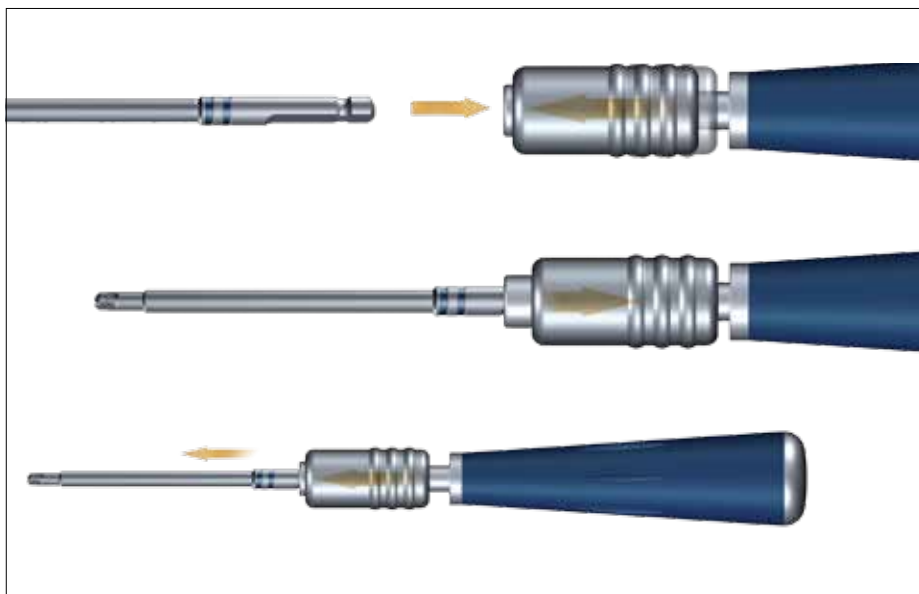
Countersinking of the Screw Head (Optional Step)

Where soft tissue coverage is minimal, the option for countersinking the screw head for further recess of the low profile screw head may be used.

Assemble the Elastosil Handle with the Cannulated Countersink by pushing the sleeve toward the tip, inserting the coupling and releasing the sleeve.

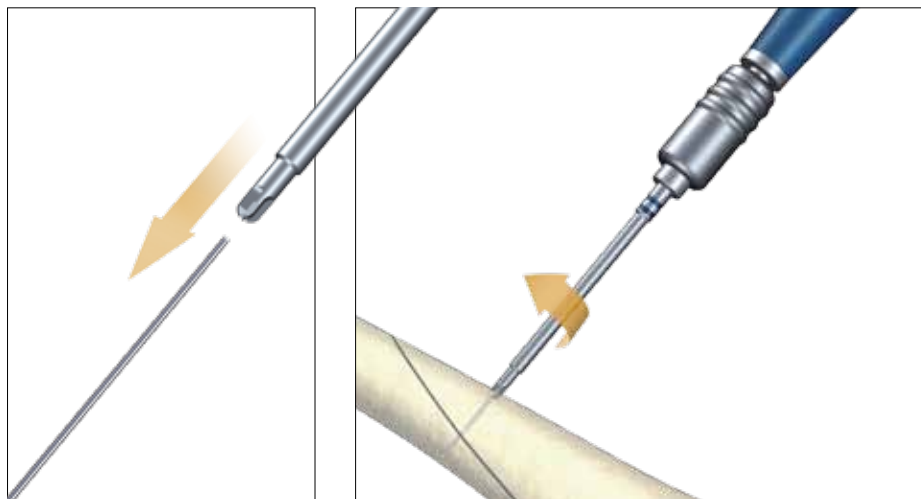
To disassemble the Cannulated Countersink push the sleeve forward and remove the countersink.

Apply the Countersink over the K-Wire and prepare the bone for countersinking by turning the instrument clockwise.



Operative Technique

Asnis Micro General Considerations



Note:

Countersinking should be applied before screw length measurement since it influences the measurement of the overall screw length

Washers

Washers may be placed under the screw head in order to spread the load over a bigger area. After countersinking Washers cannot be used.

Operative Technique

Asnis Micro General Considerations

Measurement of the Screw Length

All screw measurements need to be taken prior to drilling and / or tapping over the K-Wire.

In order to achieve the correct screw length measurement, ensure the final position of the K-Wire by using an image intensifier, or visually verify K-Wire placement, prior to measurement.

If countersinking is required, measurement of the screw length should be performed after using the countersink.

Please note:

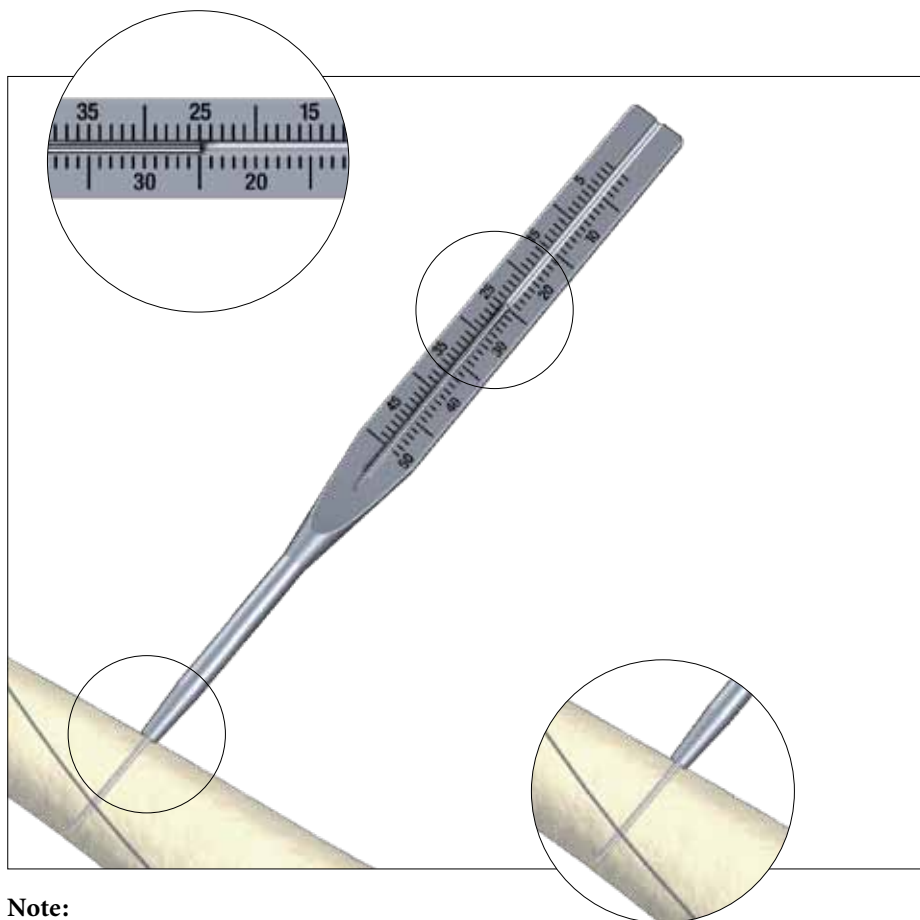
After using any cannulated instrument over a K-Wire, make certain that the K-Wire did not shift or dislocate.

Slide the Direct Measuring Gauge over the K-Wire and position it in direct contact with the bone.

The Direct Measurement Gauge measures directly to the tip of the K-Wire, thus ensuring that the final screw position corresponds with the initial tip position of the K-Wire.

The end of the K-Wire, when placed against the Direct Measurement Gauge, allows for a direct reading of the complete screw length to be used. This measurement includes the screw head.

Subtract appropriately for any anticipated fracture reduction or inter-fragmentary reduction due to compression of the screw during insertion.



Note:

- The following can influence the result of your screw length measurement:
- If the measuring gauge is not placed perpendicular to the bone surface, the measurement can be influenced by up to 1–2mm

Caution:

If screw head sinks into the bone, this may result in an unanticipated countersinking of approximately 1–2mm

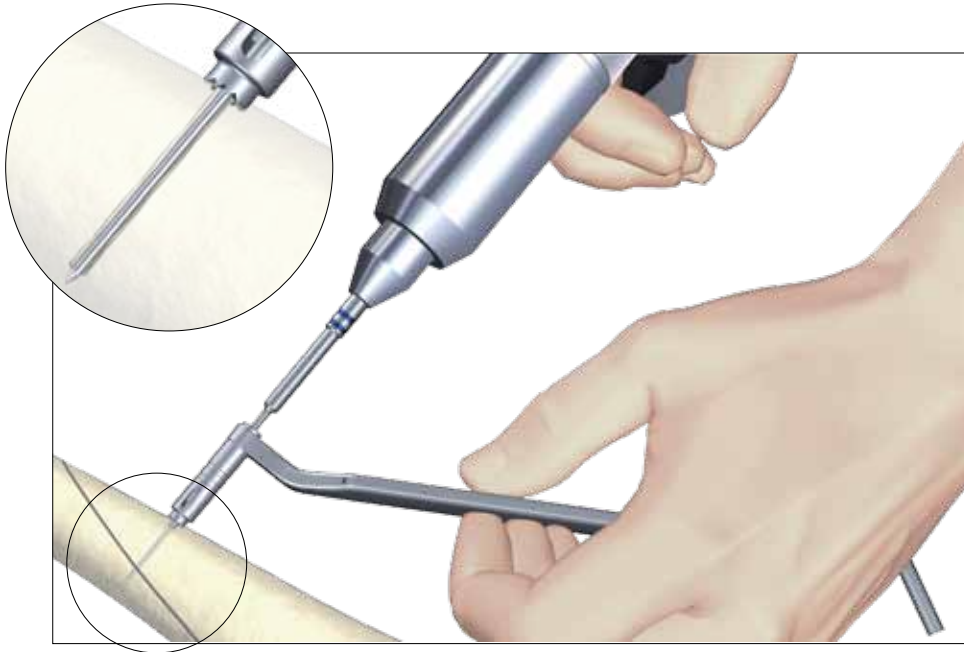
Also note, when Washers are used, the height of the implanted washer (0.5mm for the 2.0mm Asnis Micro Washer or 0.7mm for 3.0mm Asnis Micro Washer) needs to be considered for the overall screw length.

After screw insertion always confirm proper screw length by using an image intensifier or through direct visual verification.

Due to the factors listed above, and to avoid penetration or damage of the articular surface, it is recommended to subtract a minimum of 1–2mm from the screw measurement, or as appropriate.

Operative Technique

Asnis Micro General Considerations



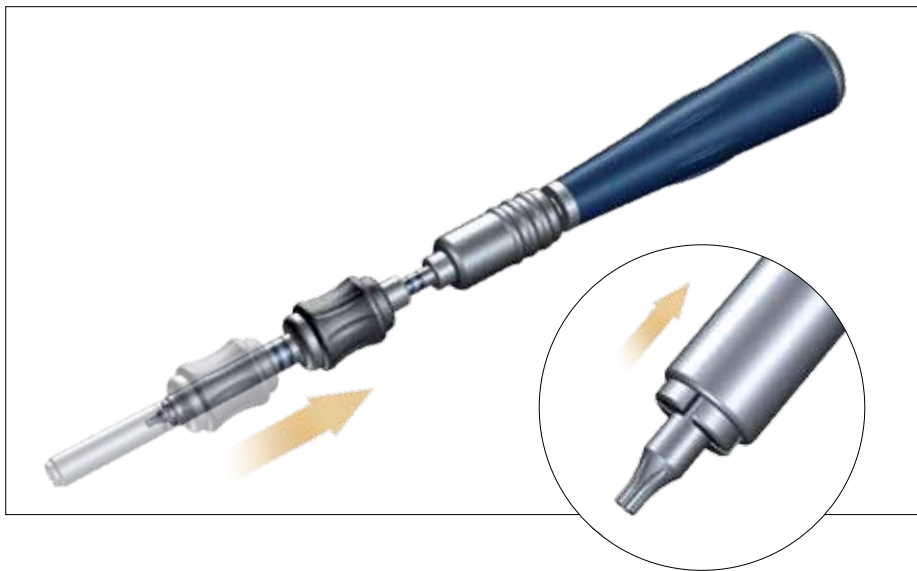
Pre-Drilling (Optional Step)

In case of hard cortical bone, pre-drilling should be used. Insert the Cannulated Drill Bit according to the screw diameter by power or manually. Slide it over the K-Wire and overdrill the K-Wire to its tip by using the Double Drill Guide.

Optionally the Solid Drill may be used without the use of a K-Wire.

Note:

In order to avoid damaging the K-Wire use low speed or a manual drill

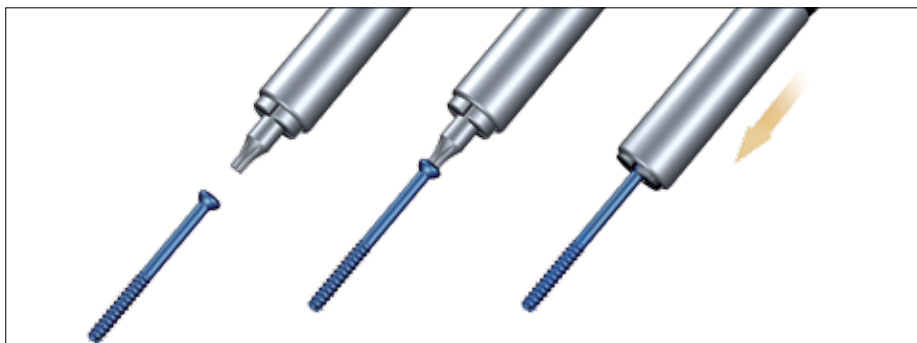


Screw Insertion Set Up

Assemble the Cannulated Screwdriver onto the Elastasil Handle as described for the Cannulated Countersink on page 6.

Take the Holding Sleeve and slide it over the Cannulated Screwdriver until it engages.

Pull the sleeve toward the handle so that the tip of the screwdriver is visible.



Place the screwdriver into the chosen screw, push the sleeve forward and take the screw securely out of the rack.

Optionally screws may also be taken from the screw rack by using the Screw Forceps.

Operative Technique

Asnis Micro General Considerations

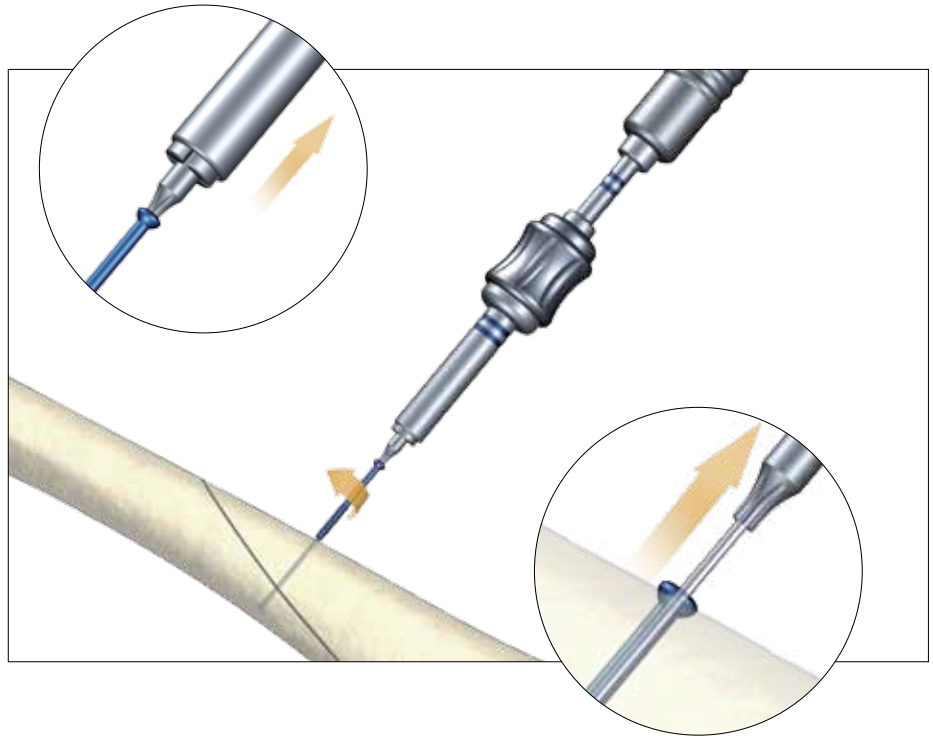
Screw Insertion

To prepare for insertion place the screw over the K-Wire onto the bone and draw the Holding Sleeve towards the handle, so that the screw head is visible.

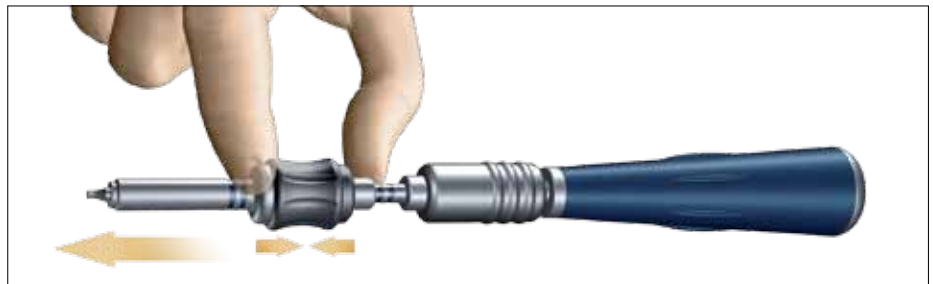
Insert the screw over the K-Wire by turning the screwdriver clockwise.

After final insertion remove the screwdriver from the screw and verify the K-Wire and screw position with the image intensifier.

After the positions have been verified remove and discard the K-Wire.



To remove the Holding Sleeve compress the bushing. The entire Holding Sleeve can now be removed from the Screw Driver.



Operative Technique

Austin / Chevron Osteotomy

Bone Preparation

Make a dorsal medial skin incision crossing the first Metatarsal Phalangeal Joint. Retract the soft tissues carefully, being certain to protect the neurovascular bundle in the skin flap.

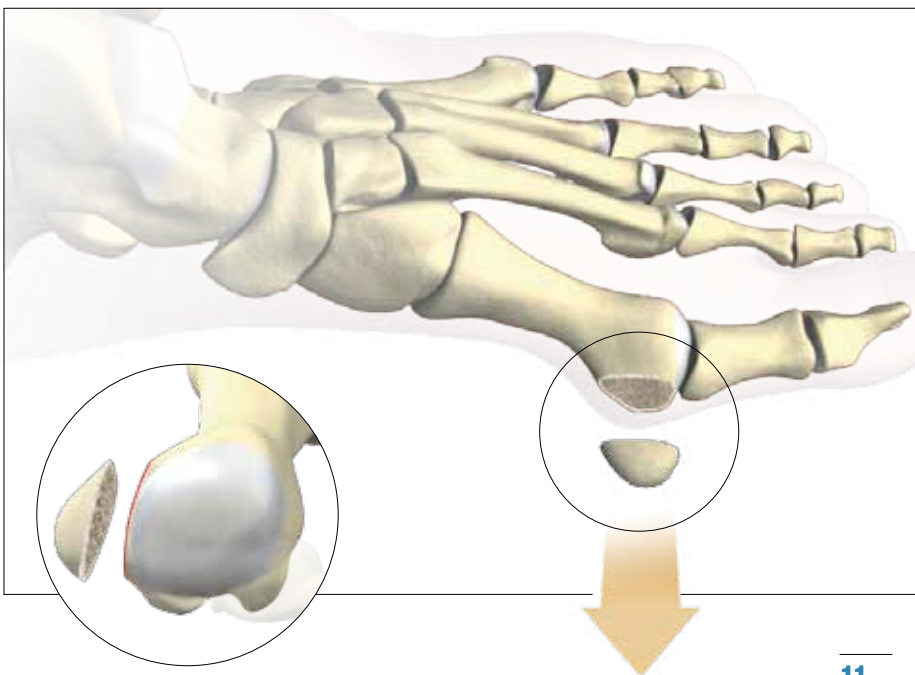
Perform a lateral release if necessary through the same incision. This would include the release of the adductor tendon and the fibular sesamoidal ligament.

Note:

Be aware of the superficial branch of the deep peroneal nerve



Perform a T-shaped incision of the capsule thus exposing the joint.



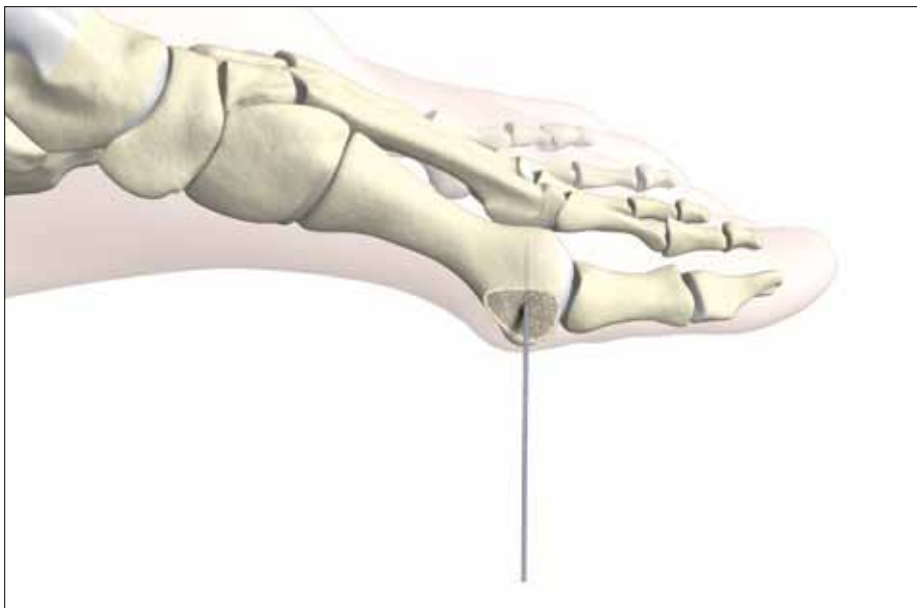
Resect the medial eminence, with protection of the sagittal groove.

Operative Technique

Austin / Chevron Osteotomy

Osteotomy

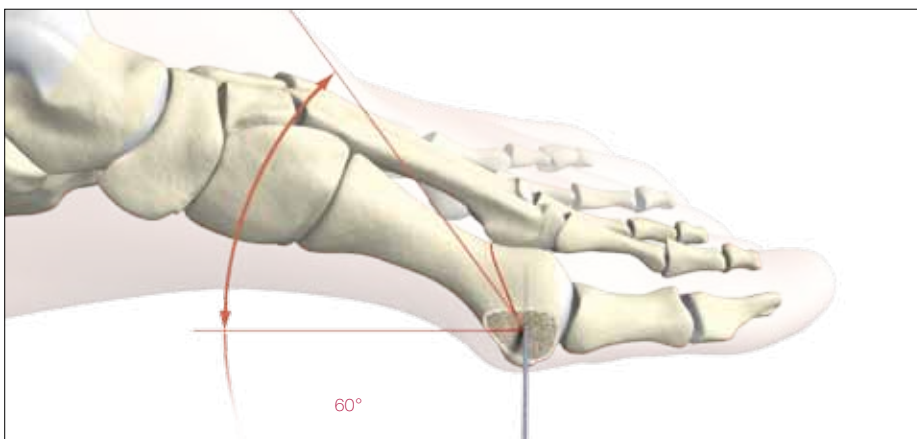
Insert the K-Wire in the center of the metatarsal head depending on the required osteotomy.



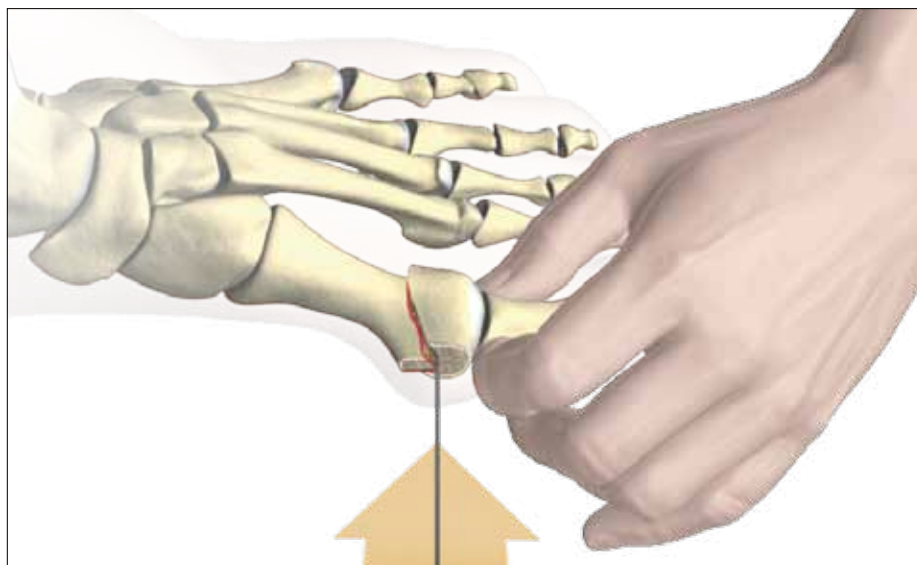
Perform a V-shaped osteotomy at the head-neck level at an angle of 60° , with the apex at the K-Wire.

Note:

The head will follow the direction which is predetermined by the K-Wire placement.

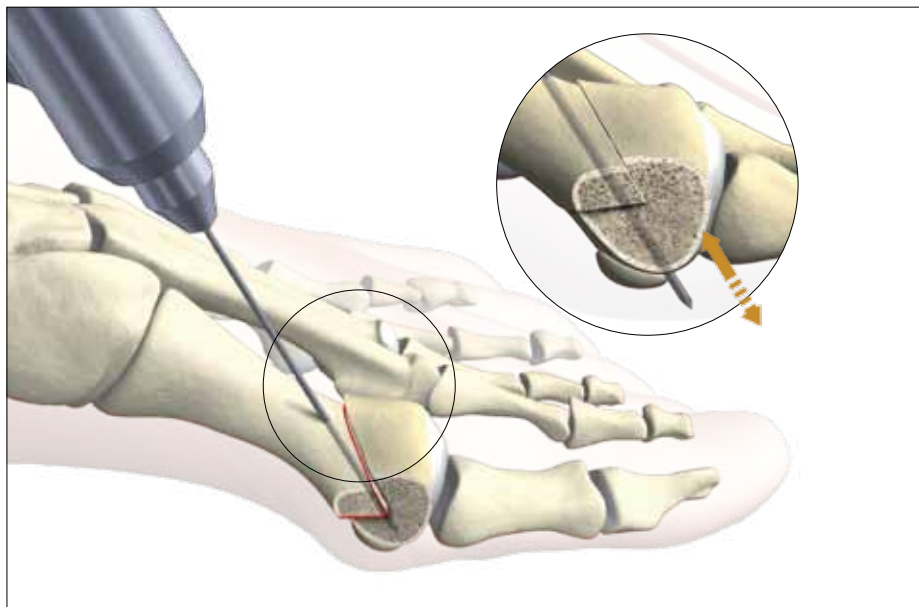


Translate the capital fragment laterally.



Operative Technique

Austin / Chevron Osteotomy

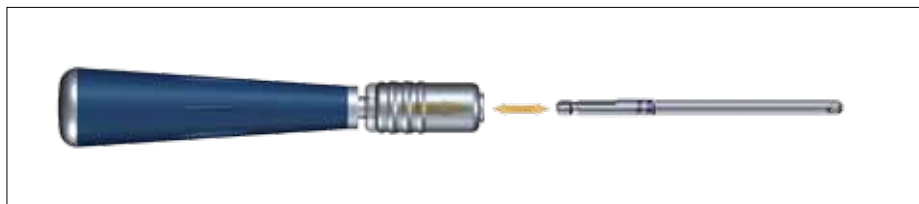


Guide Wire Insertion

Place the K-Wire for the screw in the appropriate position aiming at the center of the metatarsal head. Using the K-Wire side of the drill guide insert the K-Wire through the metatarsal head until the tip is visible and then retract it slightly so that the tip is below the level of articular cartilage.

Note:

In case of dense cortical bone, puncture the cortex before inserting the K-Wire, by using the drill bit manually or by power according to the screw diameter chosen



Countersink of the Screw Head (Optional Step)

Where soft tissue coverage is minimal, countersinking may be considered.

Assemble the Cannulated Countersink by pushing the sleeve toward the tip, inserting the Cannulated Countersink and releasing the sleeve. Apply the Countersink over the K-Wire and prepare the bone for countersinking by turning the instrument clockwise.

Note:

Countersinking should be applied before screw length measurement since it influences the measurement of the overall screw length

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After countersinking Washers cannot be used.



Operative Technique

Austin / Chevron Osteotomy

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In order to achieve the correct screw length measurement, ensure the final position of the K-Wire by using an image intensifier, or visually verify K-Wire placement, prior to measurement.

If countersinking is required, measurement of the screw length must be performed after using the countersink.

Please note:

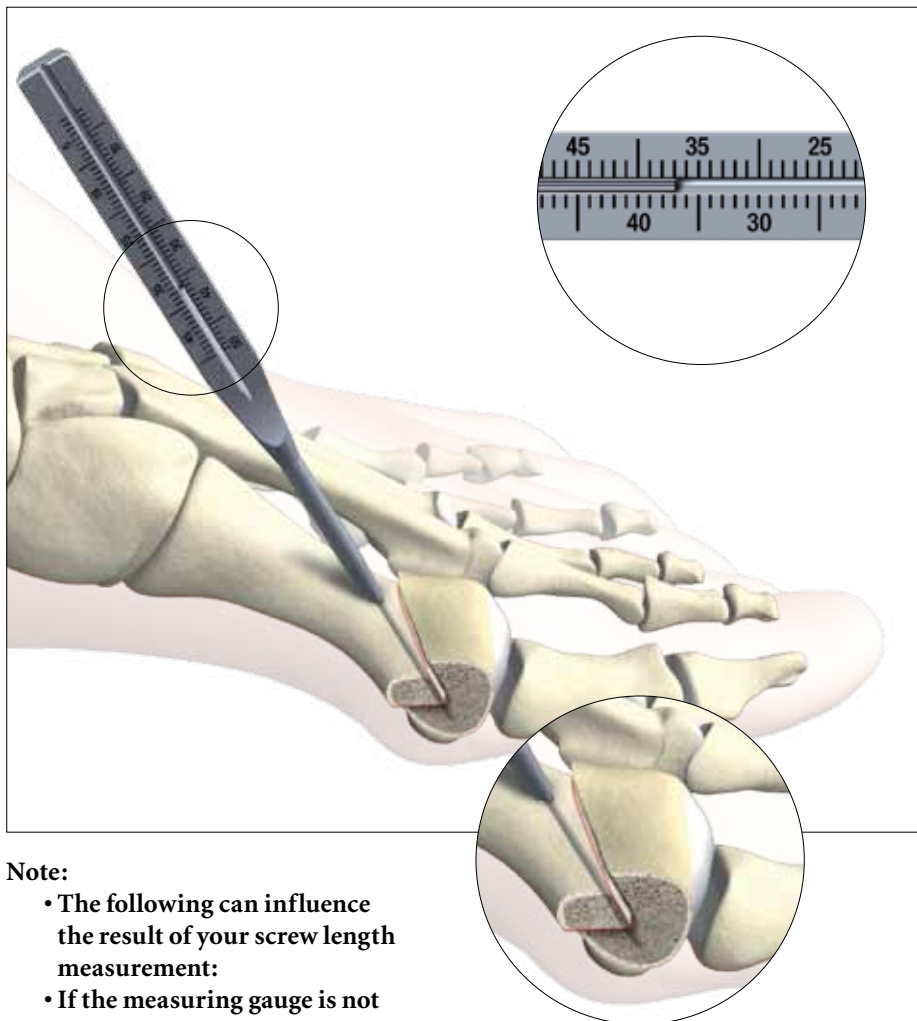
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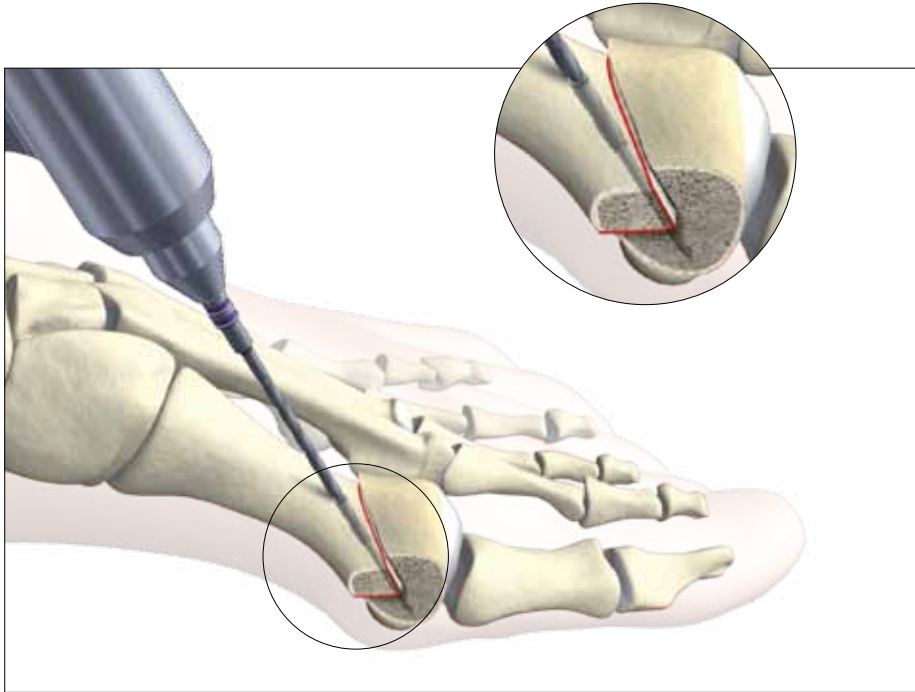
Due to the factors listed above, and to avoid penetration or damage of the articular surface, it is recommended to subtract a minimum of 1–2mm from the screw measurement, or as appropriate.

Also note, when Washers are used, the height of the implanted washer (0.5mm for the 2.0mm Asnis Micro Washer or 0.7mm for 3.0mm Asnis Micro Washer) needs to be considered for the overall screw length.

After screw insertion always confirm proper screw length by using an image intensifier or through direct visual verification.

Operative Technique

Austin / Chevron Osteotomy



Pre-Drilling (Optional Step)

In case of hard cortical bone, pre-drilling should be used.

Insert the cannulated drill bit according to the screw diameter into a power or manual cannulated drill. Slide it over the K-Wire and overdrill the K-Wire to its tip by using the Double Drill Guide.

Optionally the Solid Drill may be used without the use of a K-Wire.

Note:

In order to avoid damaging the K-Wire use low speed or a manual drill



Screw Insertion Set Up

Assemble the Cannulated Screwdriver onto the Elastosil Handle as described for the Cannulated Countersink on page 6.

Take the Holding Sleeve and slide it over the Cannulated Screwdriver until it engages.

Pull the sleeve towards the handle so that the tip of the screwdriver is visible.

Place the screwdriver into the chosen screw, push the sleeve forward and take the screw securely out of the rack.

Operative Technique

Austin / Chevron Osteotomy

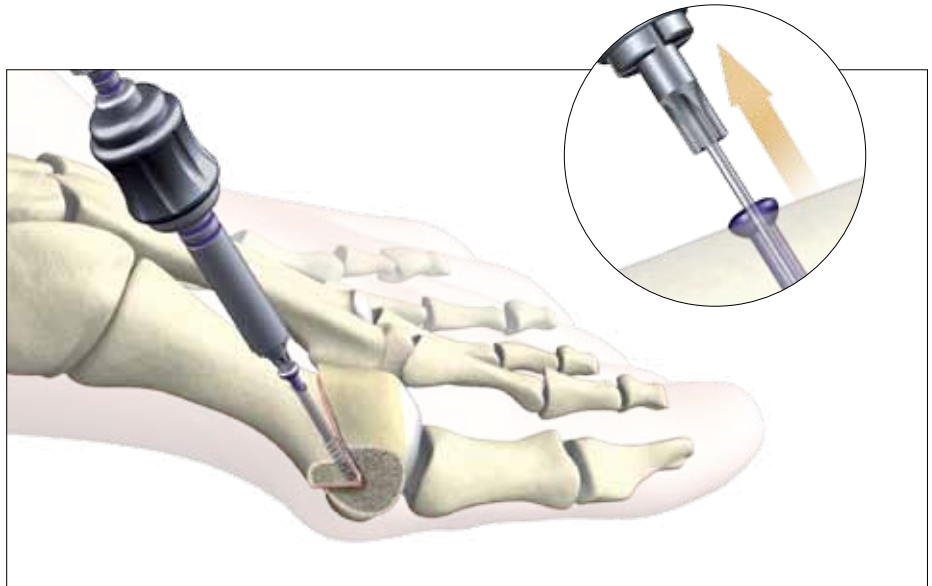
Screw Insertion

To prepare for insertion, place the screw over the K-Wire onto the bone and draw the Holding Sleeve towards the handle so that the screw head is visible.

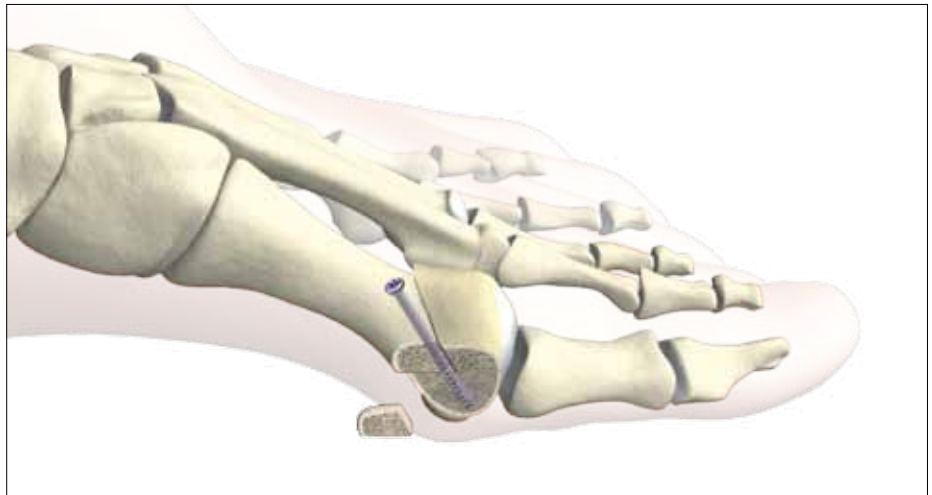
Insert the screw over the K-Wire by turning the instrument clockwise.

After final insertion remove the screwdriver from the screw and verify the K-Wire and screw position with the image intensifier.

After the positions have been verified remove and discard the K-Wire.



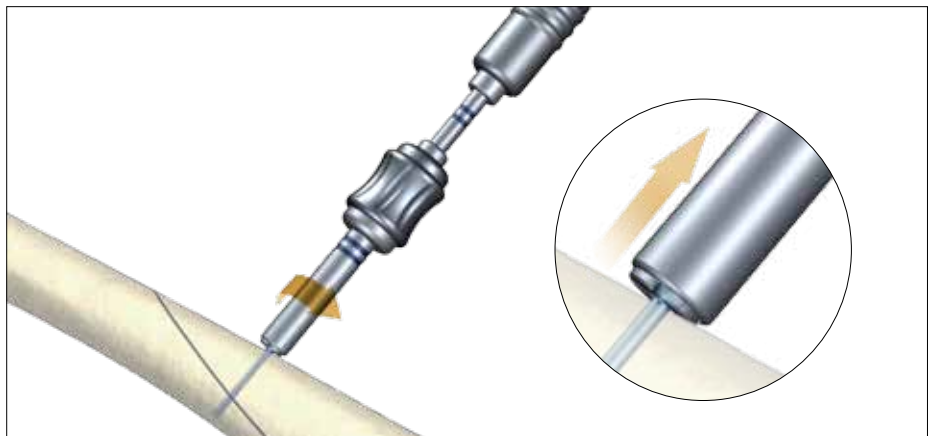
Resect the remaining head and neck prominence in a parallel plane to the medial border of the foot.



Extraction

Holding Sleeve Support

In case of difficult screw extraction, the Holding Sleeve in combination with the Solid Screwdriver can be used as a support for lifting and turning the screw.



Ordering Information – Implants Unsterile

2.0mm Asnis Micro Cannulated Screws



REF	Total Length	Thread Length	Recommended Set Item
40-20110	10mm	4mm	4
40-20112	12mm	5mm	4
40-20114	14mm	6mm	4
40-20116	16mm	7mm	4
40-20118	18mm	5mm	4
40-20218	18mm	8mm	4
40-20120	20mm	5mm	4
40-20220	20mm	9mm	4
40-20122	22mm	5mm	4
40-20222	22mm	10mm	4
40-20124	24mm	6mm	4
40-20224	24mm	10mm	4
40-20226	26mm	12mm	4
40-20228	28mm	12mm	4
40-20230	30mm	14mm	4
40-20108	8mm	4mm	
40-20109	9mm	4mm	
40-20111	11mm	5mm	
40-20113	13mm	6mm	
40-20115	15mm	6mm	
40-20217	17mm	8mm	
40-20117	17mm	5mm	
40-20219	19mm	9mm	
40-20119	19mm	5mm	
40-20126	26mm	6mm	
40-20128	28mm	6mm	
40-20130	30mm	6mm	

2.0mm Asnis Micro Washer



REF
40-20900

3.0mm Asnis Micro Washer



REF
40-30900

3.0mm Asnis Micro Cannulated Screws



REF	Total Length	Thread Length	Recommended Set Item
40-30110	10mm	4mm	3
40-30112	12mm	4mm	3
40-30114	14mm	4mm	3
40-30116	16mm	4mm	3
40-30118	18mm	5mm	3
40-30218	18mm	8mm	3
40-30120	20mm	5mm	3
40-30220	20mm	9mm	3
40-30122	22mm	5mm	3
40-30222	22mm	10mm	3
40-30124	24mm	6mm	3
40-30224	24mm	10mm	3
40-30126	26mm	6mm	3
40-30226	26mm	12mm	3
40-30128	28mm	6mm	3
40-30228	28mm	12mm	3
40-30230	30mm	14mm	3
40-30232	32mm	14mm	3
40-30234	34mm	16mm	3
40-30236	36mm	16mm	3
40-30238	38mm	18mm	3
40-30240	40mm	18mm	3
40-30108	8mm	4mm	
40-30109	9mm	4mm	
40-30111	11mm	4mm	
40-30113	13mm	4mm	
40-30214	14mm	6mm	
40-30115	15mm	4mm	
40-30215	15mm	7mm	
40-30216	16mm	7mm	
40-30117	17mm	4mm	
40-30217	17mm	8mm	
40-30119	19mm	5mm	
40-30219	19mm	9mm	
40-30121	21mm	5mm	
40-30221	21mm	9mm	
40-30123	23mm	5mm	
40-30223	23mm	10mm	
40-30125	25mm	6mm	
40-30225	25mm	10mm	
40-30127	27mm	6mm	
40-30227	27mm	12mm	
40-30129	29mm	6mm	
40-30229	29mm	12mm	
40-30130	30mm	6mm	
40-30132	32mm	6mm	
40-30134	34mm	7mm	
40-30136	36mm	7mm	
40-30138	38mm	8mm	
40-30140	40mm	8mm	

Recommended Set Item

Ordering Information – Implants Sterile

2.0mm Asnis Micro Cannulated Screws, Sterile



REF	Total Length	Thread Length
40-20110S	10mm	4mm
40-20112S	12mm	5mm
40-20114S	14mm	6mm
40-20116S	16mm	7mm
40-20118S	18mm	5mm
40-20218S	18mm	8mm
40-20120S	20mm	5mm
40-20220S	20mm	9mm
40-20122S	22mm	5mm
40-20222S	22mm	10mm
40-20124S	24mm	10mm
40-20224S	24mm	10mm
40-20226S	26mm	12mm
40-20228S	28mm	12mm
40-20230S	30mm	14mm
40-20108S	8mm	4mm
40-20109S	9mm	4mm
40-20111S	11mm	5mm
40-20113S	13mm	6mm
40-20115S	15mm	6mm
40-20217S	17mm	8mm
40-20117S	17mm	5mm
40-20219S	19mm	9mm
40-20119S	19mm	5mm
40-20126S	26mm	6mm
40-20128S	28mm	6mm
40-20130S	30mm	6mm

3.0mm Asnis Micro Cannulated Screws



REF	Total Length	Thread Length
40-30110S	10mm	4mm
40-30112S	12mm	4mm
40-30114S	14mm	4mm
40-30116S	16mm	4mm
40-30118S	18mm	5mm
40-30218S	18mm	8mm
40-30120S	20mm	5mm
40-30220S	20mm	9mm
40-30122S	22mm	5mm
40-30222S	22mm	10mm
40-30124S	24mm	6mm
40-30224S	24mm	10mm
40-30126S	26mm	6mm
40-30226S	26mm	12mm
40-30128S	28mm	6mm
40-30228S	28mm	12mm
40-30230S	30mm	14mm
40-30232S	32mm	14mm
40-30234S	34mm	16mm
40-30236S	36mm	18mm
40-30238S	38mm	18mm
40-30240S	40mm	18mm
40-30108S	8mm	4mm
40-30109S	9mm	4mm
40-30111S	11mm	4mm
40-30113S	13mm	4mm
40-30214S	14mm	6mm
40-30115S	15mm	4mm
40-30215S	15mm	7mm
40-30216S	16mm	7mm
40-30117S	17mm	4mm
40-30217S	17mm	8mm
40-30119S	19mm	5mm
40-30219S	19mm	9mm
40-30121S	21mm	5mm
40-30221S	21mm	9mm
40-30123S	23mm	5mm
40-30223S	23mm	10mm
40-30125S	25mm	6mm
40-30225S	25mm	10mm
40-30127S	27mm	6mm
40-30227S	27mm	6mm
40-30129S	29mm	6mm
40-30229S	29mm	12mm
40-30130S	30mm	6mm
40-30132S	32mm	6mm
40-30134S	34mm	7mm
40-30136S	36mm	7mm
40-30138S	38mm	8mm
40-30140S	40mm	8mm

2.0mm Asnis Micro Washer, Sterile



REF
40-20900S

3.0mm Asnis Micro Washer, Sterile



REF
40-30900S

Recommended Set Item

Ordering Information – Instruments

REF	Description
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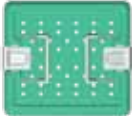

2.0mm Asnis Micro Instruments

	45-20001	Cannulated Screwdriver 2.0mm, AO Coupling
	45-20001S	Cannulated Screwdriver 2.0mm, AO Coupling, Sterile
	45-20004	Solid Screwdriver, 2.0mm, AO Coupling
	45-20004S	Solid Screwdriver 2.0mm, AO Coupling, Sterile
	45-20005S	Cannulated Drill 1.7mm, AO Coupling, Single Use, Sterile
	45-20011	Solid Drill 1.7mm, AO Coupling
	45-20011S	Solid Drill 1.7mm, AO Coupling, Sterile
	45-20006S	Cannulated Tap 2.0mm, AO Coupling, Single Use, Sterile
	45-20007S	Cannulated Countersink 2.8mm, AO Coupling, Single Use, Sterile
	45-20008	Holding Sleeve for 2.0mm Screws
	45-20009	Double Drill Guide 0.8/1.7mm
	45-20014	Cleaning Stylet 0.8mm
	45-20015	K-Wire 0.8mm x 100mm, Single Use
	45-20015S	K-Wire 0.8mm x 100mm, Single Use, Sterile

3.0mm Asnis Micro Instruments

	45-30001	Cannulated Screwdriver 3.0mm, AO Coupling
	45-30001S	Cannulated Screwdriver 3.0mm, AO Coupling, Sterile
	45-30004	Solid Screwdriver 3.0mm, AO Coupling, Sterile
	45-30004S	Solid Screwdriver 3.0mm, AO Coupling, Sterile
	45-30005S	Cannulated Drill 2.1mm, AO Coupling, Single Use, Sterile
	45-30011	Solid Drill 2.1mm, AO Coupling
	45-30011S	Solid Drill 2.1mm, AO Coupling, Sterile
	45-30006S	Cannulated Tap 3.0mm, AO Coupling, Single Use, Sterile
	45-30007S	Cannulated Countersink 3.8mm, AO Coupling, Single Use, Sterile
	45-30008	Holding Sleeve for 3.0mm Screws
	45-30009	Double Drill Guide 1.2/2.1mm
	45-30014	Cleaning Stylet 1.2mm
	45-30015	K-Wire 1.2mm x 100mm, Single Use
	45-30015S	K-Wire 1.2mm x 100mm, Single Use, Sterile

Ordering Information – Instruments

	REF	Description
Asnis Micro Generic Instruments		
	45-90010	Asnis Micro, Direct Measuring Gauge 0.8/1.2mm
	45-90200	Asnis Micro Elastosil Handle, Cannulated, AO Coupling
	900106	Screw Forceps
	29-32400	Instrument Tray for Asnis Micro 2.0 and 3.0 System
	29-32000	Screw Rack for Asnis Micro 2.0mm/3.0mm Screws (including Lid)
	29-35000	Container Stryker Foot Solutions (3 Levels without Lid)
	29-35200	Lid for Stryker Foot Solutions Container
	29-32401	Foot Solutions Tray Lid
Spare Parts		
	45-80000	Spring for 2.0mm and 3.0mm Holding Sleeve
	29-32010	Lid for Asnis Micro Screw Rack

Ordering Information – Instruments

Screw Markers

REF	Description (Screw Length / Thread Length)
52-00804	Screw Marker 8/4
52-00904	Screw Marker 9/4
52-01004	Screw Marker 10/4
52-01104	Screw Marker 11/4
52-01105	Screw Marker 11/5
52-01204	Screw Marker 12/4
52-01205	Screw Marker 12/5
52-01304	Screw Marker 13/4
52-01306	Screw Marker 13/6
52-01404	Screw Marker 14/4
52-01406	Screw Marker 14/6
52-01504	Screw Marker 15/4
52-01506	Screw Marker 15/6
52-01507	Screw Marker 15/7
52-01604	Screw Marker 16/4
52-01607	Screw Marker 16/7
52-01704	Screw Marker 17/4
52-01705	Screw Marker 17/5
52-01708	Screw Marker 17/8
52-01805	Screw Marker 18/5
52-01808	Screw Marker 18/8
52-01905	Screw Marker 19/5
52-01909	Screw Marker 19/9
52-02005	Screw Marker 20/5
52-02009	Screw Marker 20/9
52-02105	Screw Marker 21/5
52-02109	Screw Marker 21/9
52-02205	Screw Marker 22/5
52-02210	Screw Marker 22/10
52-02305	Screw Marker 23/5
52-02310	Screw Marker 23/10
52-02406	Screw Marker 24/6
52-02410	Screw Marker 24/10
52-02506	Screw Marker 25/6
52-02510	Screw Marker 25/10
52-02606	Screw Marker 26/6
52-02612	Screw Marker 26/12
52-02706	Screw Marker 27/6
52-02712	Screw Marker 27/12
52-02806	Screw Marker 28/6
52-02812	Screw Marker 28/12
52-02906	Screw Marker 29/6
52-02912	Screw Marker 29/12
52-03006	Screw Marker 30/6
52-03014	Screw Marker 30/14
52-03206	Screw Marker 32/6
52-03214	Screw Marker 32/14
52-03407	Screw Marker 34/7
52-03416	Screw Marker 34/16
52-03607	Screw Marker 36/7
52-03616	Screw Marker 36/16
52-03808	Screw Marker 38/8
52-03818	Screw Marker 38/18
52-04008	Screw Marker 40/8
52-04018	Screw Marker 40/18



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