

austofix CHN
CANNULATED HUMERAL NAIL

Brochure



austofixCHN

CANNULATED HUMERAL NAIL

The Austofix Cannulated Humeral Nail is based on over 25 years of clinical history and Austofix expertise in the design and manufacture of world-class and innovative trauma devices. Our design objective is to reduce operative times and support efficient and safe procedures resulting in improved patient outcomes.

The Austofix Standard CHN is the preferred treatment option for all surgical neck and multi-part proximal humeral fractures.

The Austofix Long CHN is suitable for any mid-shaft humeral fractures or shaft fractures in isolation. The Long CHN can also be inserted using a retrograde approach for all middle and distal humeral shaft fractures, avoiding damage to the rotator cuff.

CHN Standard

- **Cannulated Universal Nail Design**
 - » Suitable for Left or Right Humeral Fractures
- **Anatomical Design**
 - » Minimises Bone Loss
- **Simplified Inventory Management**
 - » Intuitive Proximal Screw Guide for Distal & Proximal Locking
 - » No X-ray Targeting Required
- **170mm Length with High Distal Locking**
 - » Optimal for Proximal & Surgical Neck Fractures
- **Ø8 & Ø9mm Distal Diameter**



CHN Long

- **Cannulated Universal Nail Design**
 - » Suitable for Left or Right Humeral Fractures
- **Anatomical Design**
 - » Minimises Bone Loss
- **Ezy-Aim Compatible**
 - » No X-ray Targeting Required
- **180mm - 280mm Length**
 - » Optimal for Mid-Shaft & Isolated Fractures
- **Suitable for Retrograde Insertion**
 - » Avoids Damage to Rotator Cuff
- **Ø7, Ø8 & Ø9mm Distal Diameter**



Features

Nail Features

- Cannulation provides simple insertion over guidewire. Reduces operating time.
- Type II Anodised Titanium (ISO 5832-3). Increased biocompatibility and biomechanical performance.
- Four proximal screw holes for Humeral Head Screws. Provides multiple points of fixation in Humeral Head.
- Multiplanar Humeral Head locking. Two oblique & two lateral proximal locking for superior fixation.
- Ø9mm Proximal Diameter & Ø7*, Ø8 & Ø9mm Distal Diameters. Allows for smallest possible insertion footprint.
- Anatomical mediolateral bend. 5° for CHN Long & 7.5° for CHN Short provides better anatomic fit, minimising bone loss.
- Intuitive instrument set. Used for both CHN Long & Short, decreasing procedure time and improving patient outcome.
- Retrograde insertion technique*. Optimal for distal shaft fractures & avoids damage to rotator cuff, particularly for younger patients.
- Ezy-Aim compatibility*. Simple to use & eliminates the need for distal X-ray targeting.

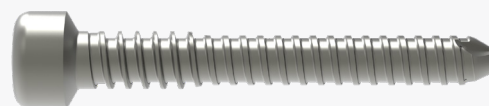
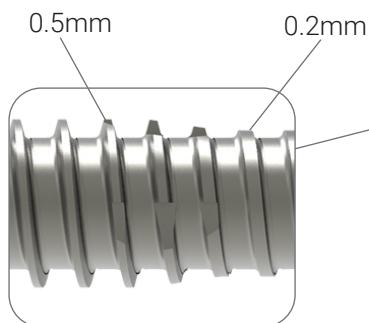
*CHN Long only



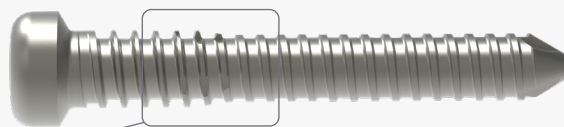
Screws

3.5mm/4.0mm Nail Locking Screws

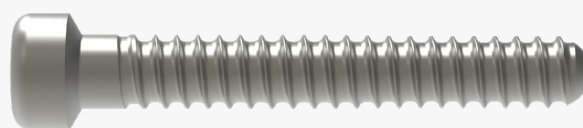
- Used for distal locking.
- Special thread design with 75% of the thread being shallow facilitating insertion and the final 25% expanding to grip the first cortex.



3.5mm Nail Locking Screw*
(Ø7mm Nail)



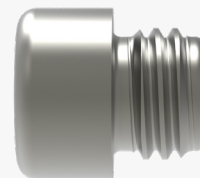
4.0mm Nail Locking Screw
(Ø8mm & Ø9mm Nails)



4.3mm Humeral Head Screw

4.3mm Humeral Head Screws

- Used in the four proximal holes of the CHN.
- Contain an anti-backout mechanism and are securely placed in a tapped proximal hole in the Nail.
- Blunt contact tips with low profile heads to reduce tendon irritation.
- Incremental 2.5mm sizes are offered to enable the closest possible placement to the subchondral bone.



Humeral Nail End Cap

Humeral Nail End Cap

- Used to increase Nail length & deter bony ingrowth.
- Lengths: 1, 5, 10, 15, 20mm.



Washer for Humeral Head Screw

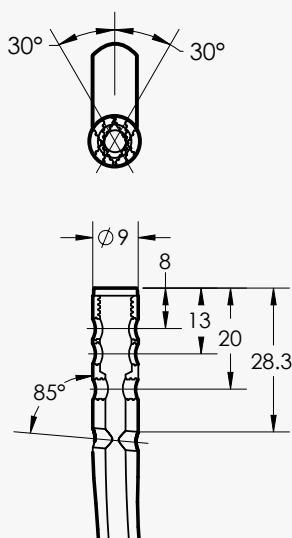
Washer for Humeral Head Screws

- Used to lag fragments to the humeral head and for greater tuberosity fractures.

*CHN Long Only

Design Details

- All implants are made from ISO 5832-3 Titanium.
 - » Made specially to Austofix specifications.
 - » Provides unrivalled strength and rigidity.
- Tight tolerances resulting in a high quality narrower design.
 - » Enables the insertion "footprint" to be the smallest possible.
 - » Preserves the rotator cuff.
 - » Enables early mobilisation.
- Independent cadaver testing shows the Austofix CHN construct to be a superior design.



Innovative Instrumentation



Nail Holder & Proximal Screw Guide

The CHN Nail Holder and Proximal Screw Guide enable fast and efficient insertion of the Nail and Humeral Head Screws.

- Significant reduction of operating procedure time.
- Reduction of inventory.

When used with the Standard Nail, the CHN Proximal Screw Guide is used for distal Locking Screw fixation.

- No X-ray for distal targeting required.
- Greatly improved patient outcome.

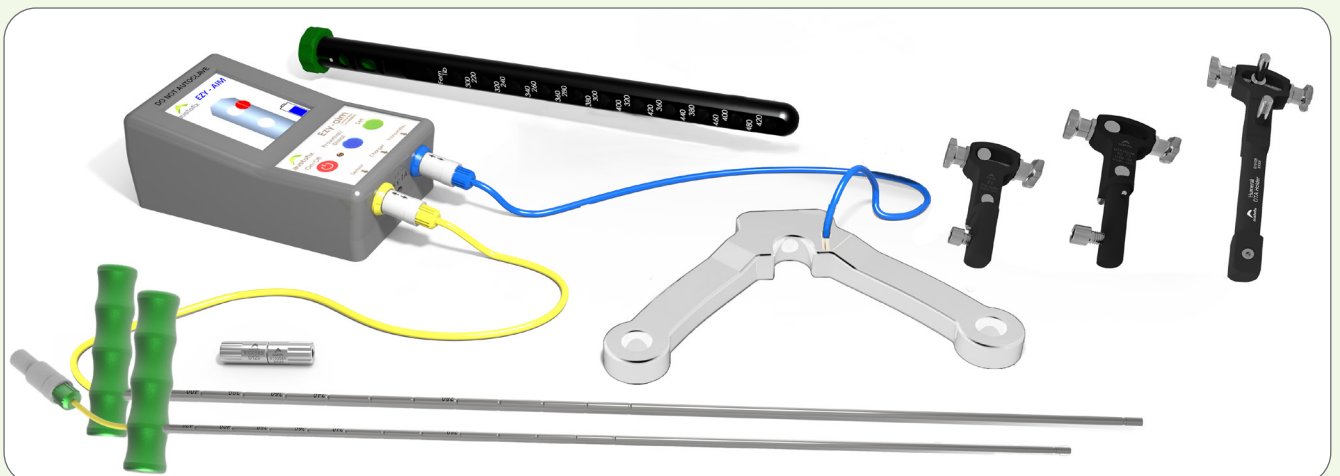
Easy to assemble. Short Locking Sleeves ensure accurate alignment and stable fixation of Humeral Head Screws.

Ezy-Aim Distal Targeting System

The CHN Long Nail utilises the Ezy-Aim Distal Targeting System for the fixation of distal Locking Screws.

Ezy-Aim removes the need for X-ray distal targeting, reducing patient dose and operating time, improving patient outcome.

Please refer to the Ezy-Aim Distal Targeting System Surgical Technique for instructions on how to calibrate the CHN Long Nail for distal hole targeting.



CHN Nails

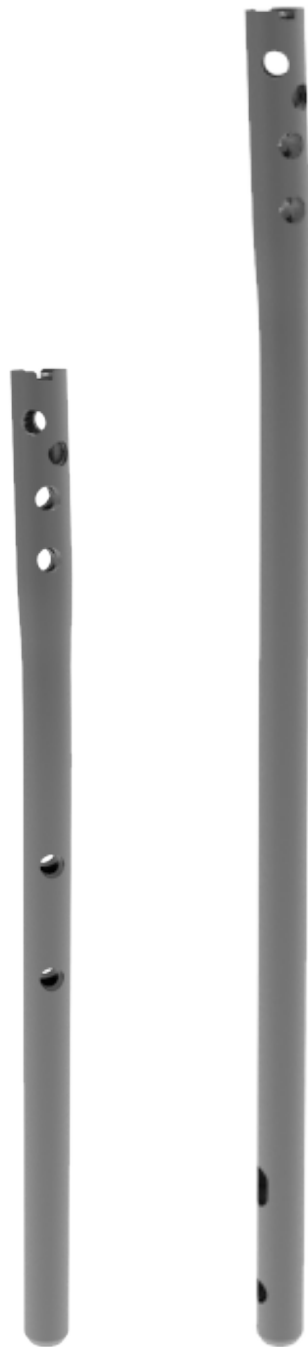
CHN Long - Titanium	
Nominal Length	Product Code
Ø7	
180	130718
200	130720
220	130722
240	130724
260	130726
280	-
Ø8	
200	130820
220	130822
240	130824
260	130826
280	130828
Ø9	
200	130920
220	130922
240	130924
260	130926
280	130928

CHN Standard - Titanium		
Product Code	Nominal Diameter	Nail Length
130817	Ø8	170
130917	Ø9	

Single Use Items

Guidewire	
Product Code	Description
512525	2.5 x 250mm K Wire (Twin Packed)
533900	3.0 x 900mm Ball-tip Guidewire

Drill	
Product Code	Description
513224	3.2 x 240mm Drill (for 3.5mm Screw) (Long CHN Nail Only)
513724	3.7 x 240mm Drill (for 4.0 & 4.3mm Screw)

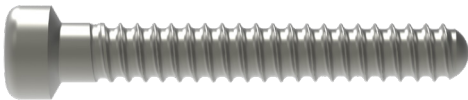


Implants

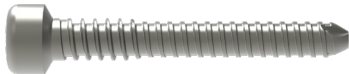
4.0mm Locking Screw	
Product Code	Screw Length
364020	20
364025	25
364030	30
364032	32.5
364035	35
364037	37.5
364040	40
364045	45
364050	50
364055	55
364060	60
364065	65
364070	70



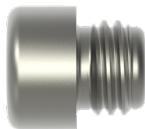
4.3mm Humeral Head Screw	
Product Code	Screw Length
134325	25
134327	27.5
134330	30
134332	32.5
134335	35
134337	37.5
134340	40
134342	42.5
134345	50



3.5mm Locking Screw	
Product Code	Screw Length
133520	20
133525	25
133530	30



M7 End Cap	
Product Code	Cap Length
190701	1
190705	5
190710	10
190715	15
190720	20



Washer for Humeral Head Screws	
Product Code	
134301	





As a leading manufacturer and designer of orthopaedic medical devices Austofix is dedicated to continuous innovation, excellence and patient safety.

Austofix has extensive experience and expertise in developing new medical devices from concept to a fully commercialised product with regulatory approval for worldwide distribution. With a team of world-class research and development specialists Austofix identifies emerging techniques and innovations within the field of orthopaedic to develop world-class solutions.

By focussing on the specific needs of orthopaedic surgeons, Austofix products assist the surgeon in performing accurately, efficiently and safely leading to better health outcomes for the patient. Austofix success can be measured through the excellent clinical results and positive surgeon feedback.

This has led to Austofix emerging as one of Australia's key contributors to the world-wide medical technology industry.

Legal Manufacturer

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