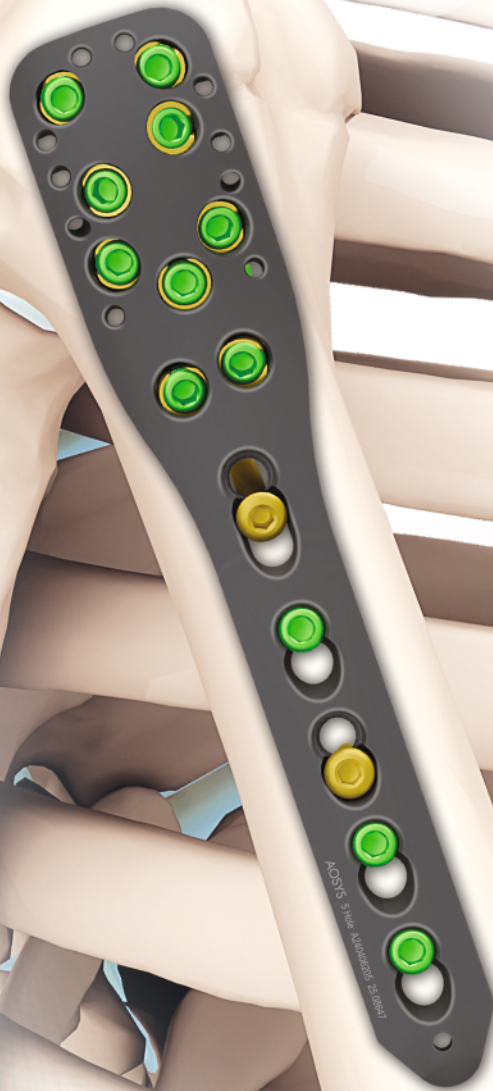


AOSYS[®]

Revolutionising healthcare with innovation



VARIABLE ANGLE SERIES

Precision in Engineering | Stability in Fixation | Freedom in Healing

www.aosys.in



Revolutionary Variable Angle Ring System

AOSYS introduces the **next generation of variable angle locking technology**, designed for **absolute fixation freedom** and **anatomical precision**. Each VA plate utilizes a **spherical locking washer mechanism** that allows up to $\pm 18^\circ$ of **angulation**, enabling surgeons to **direct each screw** optimally according to the fracture pattern and bone quality.

Core Advantages :

- **360° Targeting Flexibility** : Screws can be directed at any desired angle within a 36° cone for tailored fixation.
- **Thread Protection** : The locking interface prevents thread deformation, ensuring consistent grip throughout the screw's life.
- **Smooth Screw Movement** : Precisely machined ring geometry allows smooth insertion and locking without cross-threading.
- **Tapered Inner Thread Expansion** : Natural micro-expansion of the inner ring achieves a firm, vibration-resistant lock between plate and screw.
- **True Variable Locking** : No inserts required – direct ring engagement ensures lasting angular stability.
- **Enhanced Bone – Plate Contact** : Optimized interface design distributes forces evenly, improving load sharing and minimizing stress concentration.

VA Locking Proximal Humerus Plate

Anatomically Contoured Plate Profile

- Each plate is anatomically shaped to match the natural curvature of the bone.
- The low-profile design minimizes soft tissue irritation and allows **minimally invasive application** through smaller incisions.



Combi & Elongated Combi Holes

- Accept both **3.5 mm cortical** and **3.5 mm locking screws**.
- Dynamic compression slots allow controlled fracture compression during reduction, improving contact and healing.

Tapered Tip for MIS

- Tapered anterior edge ensures smooth insertion under soft tissue envelopes for minimally invasive procedures.

Product Code :

SIZE	CODE	HOLE
SHORT	A240406202	2 Hole
SHORT	A240406203	3 Hole
SHORT	A240406204	4 Hole
SHORT	A240406205	5 Hole
LONG	A240406305	5 Hole
LONG	A240406306	6 Hole
LONG	A240406308	8 Hole
LONG	A240406310	10 Hole

Locking Head Bone Screw, Dia. 3.5mm, Self Tapping

Length.....10–50mm (2mm Variation)
Length.....55–90mm (5mm Variation)
Reference.....SS316L : A1062
.....Titanium : A2062



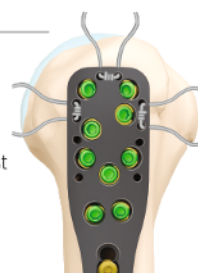
Cortical Bone Screw, Dia.3.5mm x 20 TPI, Self Tapping

Length.....10–50mm (2mm Variation)
Length.....55–70mm (5mm Variation)
Reference.....SS316L : A1024
.....Titanium : A2024



Peripheral Suture Holes

- Peripheral suture holes support soft-tissue reattachment and rotator cuff repair.
- Promote joint stability and assist biological healing, especially in osteoporotic or comminuted fractures.



K-wire System for stable fixation & Distal K-wire Hole

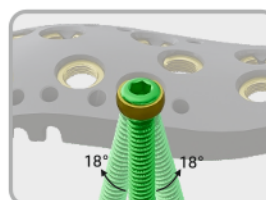
- Assures accurate screw alignment and controlled angulation during insertion.
- Reduces surgical time and prevents intraoperative misalignment.
- Allows precise plate positioning during surgery.
- Aids temporary stabilization and prevents plate migration during initial fixation.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.



VA Locking Extended Medial Distal Humerus Plate (2.7/3.5mm)

- Designed for intra-articular and extra-articular distal humerus fractures, osteotomies, and revisions.
- Provides strong fixation in small distal fragments.
- Diverging screw pattern offers firm grip in osteoporotic bone.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

LEFT CODE	RIGHT CODE	HOLE
A240414801	A240414901	1 Hole
A240414802	A240414902	2 Hole
A240414804	A240414904	4 Hole
A240414806	A240414906	6 Hole
A240414808	A240414908	8 Hole
A240414810	A240414910	10 Hole

Locking Head Bone Screw, Dia. 2.7mm, Self Tapping

Length10–40mm (2mm Variation)
 Length45–60mm (5mm Variation)
 ReferenceSS316L : A1061
Titanium : A2061



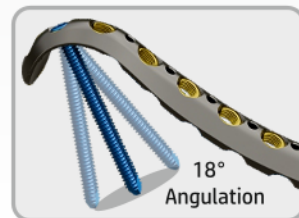
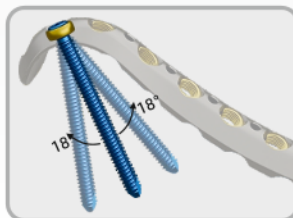
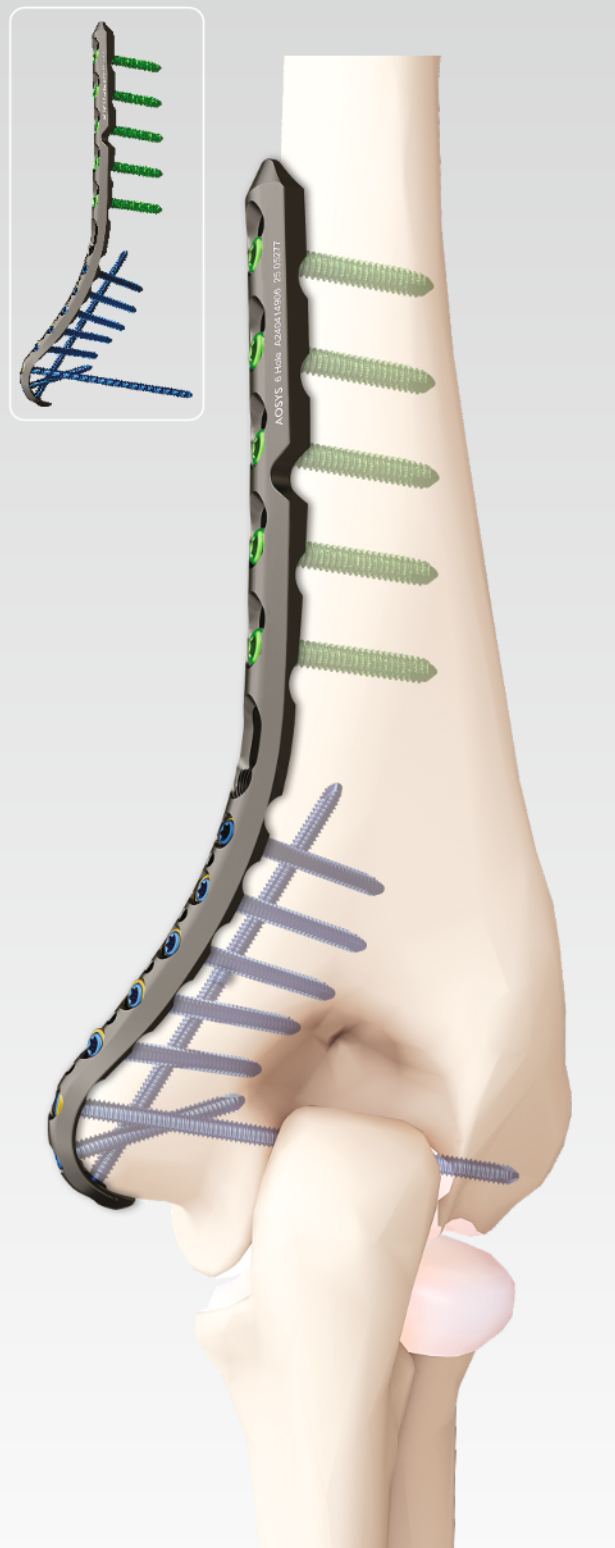
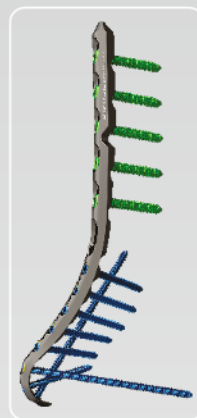
Locking Head Bone Screw, Dia. 3.5mm, Self Tapping

Length10–50mm (2mm Variation)
 Length55–90mm (5mm Variation)
 ReferenceSS316L : A1062
Titanium : A2062



Cortical Bone Screw, Dia.3.5mm x 20 TPI, Self Tapping

Length10–50mm (2mm Variation)
 Length55–70mm (5mm Variation)
 ReferenceSS316L : A1024
Titanium : A2024



VA Locking Medial Distal Humerus Plate

- Designed for intra-articular and extra-articular distal humerus fractures, osteotomies, and revisions.
- Provides strong fixation in small distal fragments.
- Diverging screw pattern offers firm grip in osteoporotic bone.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

LEFT CODE	RIGHT CODE	HOLE
A240414601	A240414701	1 Hole
A240414602	A240414702	2 Hole
A240414604	A240414704	4 Hole
A240414606	A240414706	6 Hole
A240414608	A240414708	8 Hole
A240414610	A240414710	10 Hole

Locking Head Bone Screw, Dia. 2.7mm, Self Tapping

Length 10–40mm (2mm Variation)
 Length 45–60mm (5mm Variation)
 Reference SS316L : A1061
 Titanium : A2061



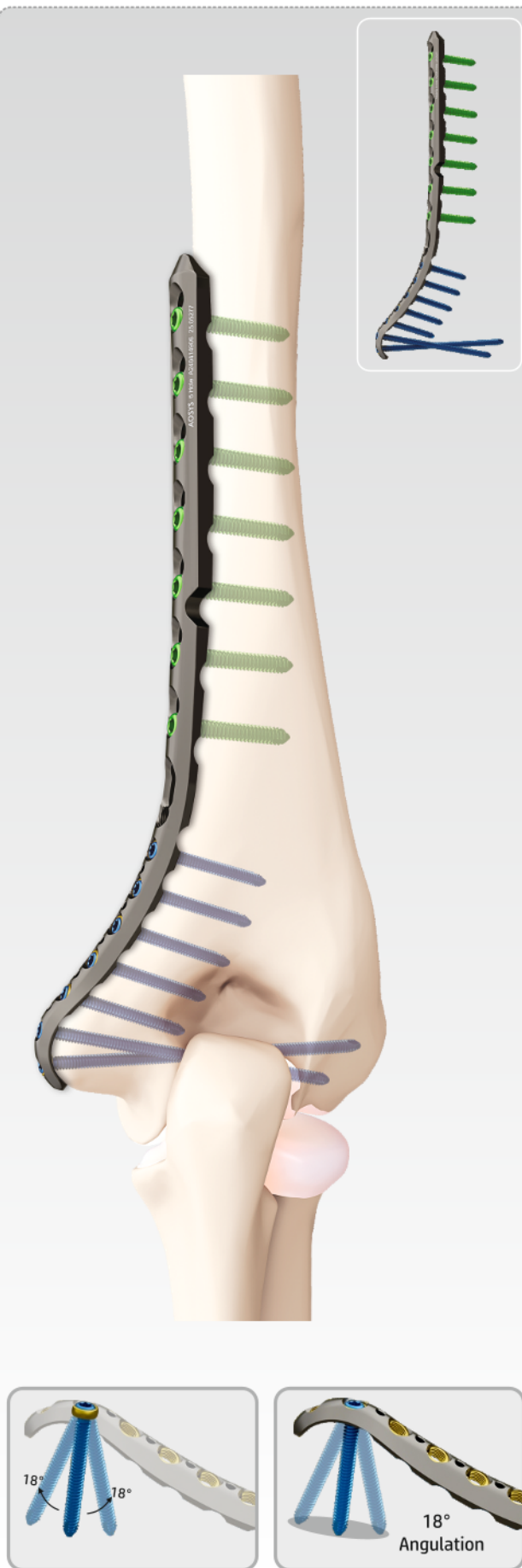
Locking Head Bone Screw, Dia. 3.5mm, Self Tapping

Length 10–50mm (2mm Variation)
 Length 55–90mm (5mm Variation)
 Reference SS316L : A1062
 Titanium : A2062



Cortical Bone Screw, Dia. 3.5mm x 20 TPI, Self Tapping

Length 10–50mm (2mm Variation)
 Length 55–70mm (5mm Variation)
 Reference SS316L : A1024
 Titanium : A2024



VA Locking Distal Humerus Plate, Lateral

- Indicated for metaphyseal fractures, comminuted distal humeral shaft fractures, and non-unions.
- Anatomical curvature maintains ulnar nerve safety and ensures subcutaneous implant comfort.
- Allows stable fixation with minimal soft-tissue disruption.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

LEFT CODE	RIGHT CODE	HOLE
A240415001	A240415101	1 Hole
A240415002	A240415102	2 Hole
A240415005	A240415105	5 Hole
A240415007	A240415107	7 Hole
A240415009	A240415109	9 Hole
A240415011	A240415111	11 Hole

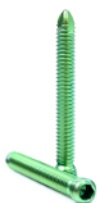
Locking Head Bone Screw, Dia. 2.7mm, Self Tapping

Length10–40mm (2mm Variation)
 Length45–60mm (5mm Variation)
 ReferenceSS316L : A1061
Titanium : A2061



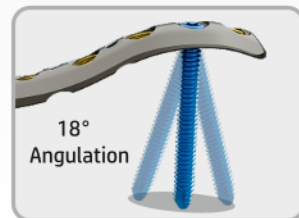
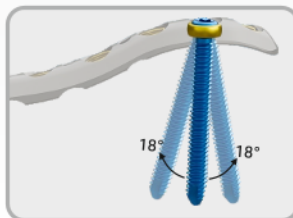
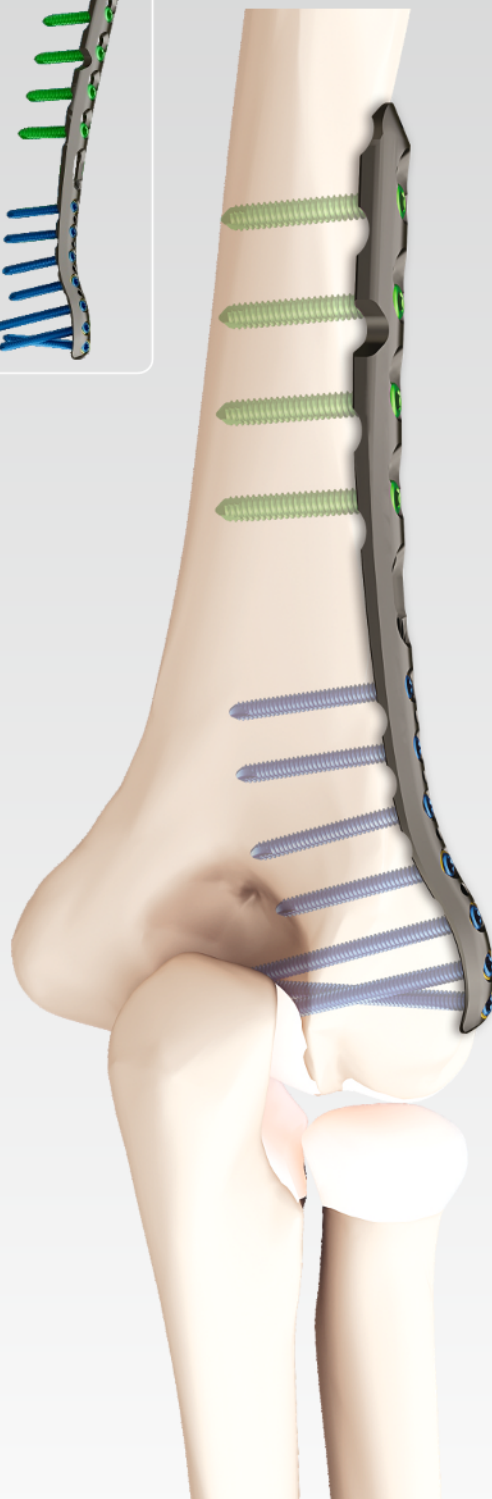
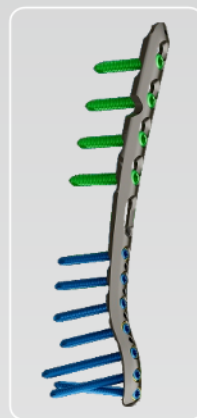
Locking Head Bone Screw, Dia. 3.5mm, Self Tapping

Length10–50mm (2mm Variation)
 Length55–90mm (5mm Variation)
 ReferenceSS316L : A1062
Titanium : A2062



Cortical Bone Screw, Dia.3.5mm x 20 TPI, Self Tapping

Length10–50mm (2mm Variation)
 Length55–70mm (5mm Variation)
 ReferenceSS316L : A1024
Titanium : A2024



VA Locking Proximal Tibial Plate



- Designed for lateral and medial tibial plateau fractures, bicruciate fractures, and osteotomies.
- Variable screw angulation enables subchondral raft construction for articular surface support.
- High torsional strength ensures stable fixation under axial load.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

LEFT CODE	RIGHT CODE	HOLE
A240406404	A240406504	4 Hole
A240406406	A240406506	6 Hole
A240406408	A240406508	8 Hole
A240406410	A240406510	10 Hole
A240406412	A240406512	12 Hole
A240406414	A240406514	14 Hole



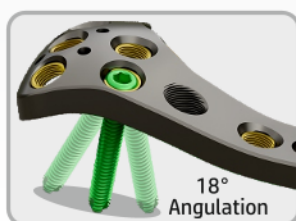
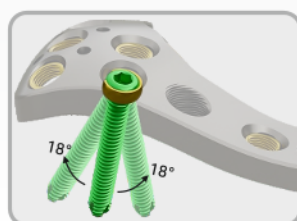
Locking Head Bone Screw, Dia. 3.5mm, Self Tapping

Length 10–50mm (2mm Variation)
 Length 55–90mm (5mm Variation)
 Reference SS316L : A1062
 Titanium : A2062



Cortical Bone Screw, Dia. 3.5mm x 20 TPI, Self Tapping

Length 10–50mm (2mm Variation)
 Length 55–70mm (5mm Variation)
 Reference SS316L : A1024
 Titanium : A2024



VA Locking Cable Plate (Broad)

- Designed for complex reconstructions requiring both screw and cable fixation (e.g., periprosthetic or long bone fractures).
- Integrates locking screw fixation with cable tension, allowing secure hold even in poor bone quality.
- Enhances load sharing and distributes stress evenly across fixation points.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

LEFT CODE	RIGHT CODE	HOLE
A240415001	A240415101	1 Hole
A240415002	A240415102	2 Hole
A240415005	A240415105	5 Hole
A240415007	A240415107	7 Hole
A240415009	A240415109	9 Hole
A240415011	A240415111	11 Hole

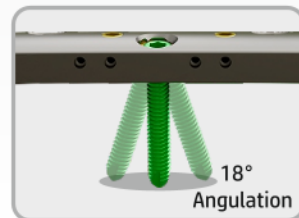
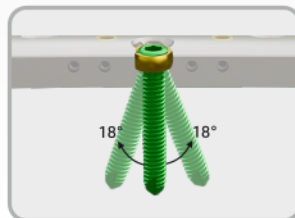
Locking Head Bone Screw, Dia. 5.0mm Self Tapping

Length12–50mm (2mm Variation)
 Length55–70mm (5mm Variation)
 ReferenceSS316L : A1064
Titanium : A2064



Cortical Bone Screw, Dia. 4.5mm, Self Tapping

Length12–60mm (2mm Variation)
 Length55–90mm (5mm Variation)
 ReferenceSS316L : A1026
Titanium : A2026



VA Locking Curved Condylar Cable Plate

- Ideal for distal femoral condylar fractures, metaphyseal reconstructions, and non-unions.
- Curved profile follows bone contour for anatomical fit.
- The cable-locking mechanism reinforces fixation against varus/valgus stress.

Variable Angle Locking Mechanism

- The spherical washer allows surgeons to insert locking screws at variable angles, optimizing fixation even in complex fracture geometries.
- Provides **additional circumferential stability** (360°) while maintaining a secure lock within the plate.
- Enhances fixation strength by accommodating anatomical variations and bone density differences.

Secure Screw Fixation

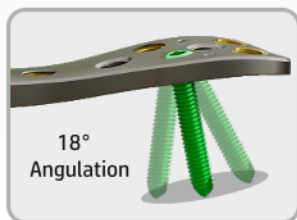
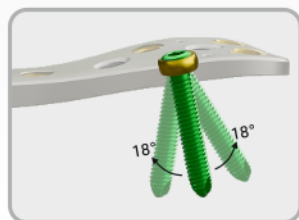
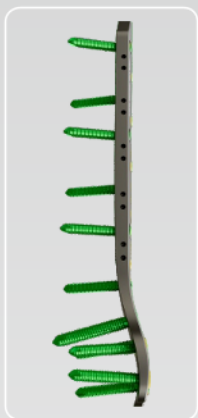
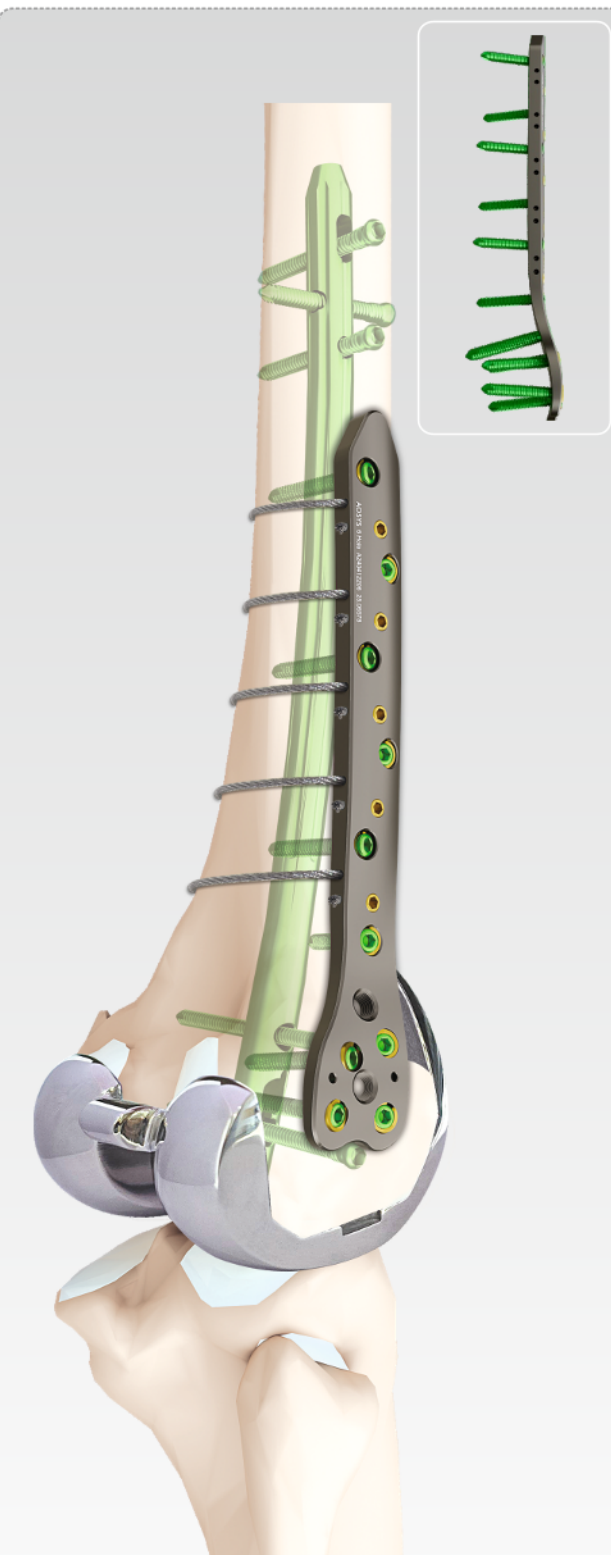
- When tapered locking screws are inserted, the washer expands, locking the screw securely within the plate.
- This prevents micromotion and reduces the risk of screw back-out, ensuring long-term construct stability.

Product Code :

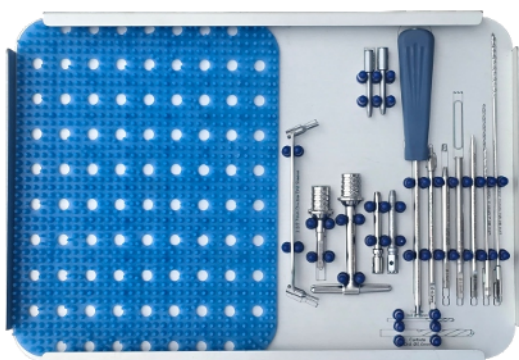
LEFT CODE	RIGHT CODE	HOLE
A240412104	A240412204	4 Hole
A240412106	A240412206	6 Hole
A240412108	A240412208	8 Hole
A240412110	A240412210	10 Hole
A240412112	A240412212	12 Hole
A240412114	A240412214	14 Hole

Locking Head Bone Screw, Dia. 5.0mm Self Tapping

Length 12–50mm (2mm Variation)
 Length 55–70mm (5mm Variation)
 Reference SS316L : A1064
 Titanium : A2064



(X101) Instrument Set for 3.5mm Locking Plate System

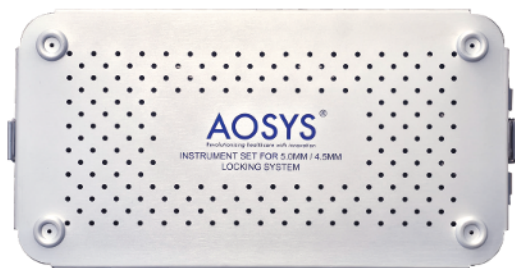


Product Code	Name of Products	Qty.
X101.01	Depth Gauge, 2.7/3.5mm	1
X101.03	Double Drill Guide Sleeve 2.5mm 3.5mm	1
X901.03	Drill Bit with Quick Coupling, 2.5mm x 150mm	1
X901.04	Drill Bit with Quick Coupling, 2.5mm x 200mm	1
X901.05	Drill Bit with Quick Coupling, 2.8mm x 180mm	2
X901.11	Drill Bit with Quick Coupling, 3.5mm x 110mm	1
X101.08	Locking Drill Sleeve 2.8mm	3
X101.10	T Handle for LCP Sleeve	1
A780602150	K Wire, Simple, 2.0mm x 150mm	3
X101.14	Screw Driver Shaft, 2.5mm, Hexagonal for 3.5mm screw	1
X101.15	Screw Driver, 2.5mm, Hexagonal for 3.5mm screws	1
X101.19	T Handle with Quick Coupling for Drill / Tap	1
X101.20	Tap, 3.5mm	1
X101.22	Torque Limiting Screw Driver 3.5mm	1
X102.25	AO Quick Coupling Adaptor	1
X101.28	Hollow Mill for 3.5mm screw	1
X101.30	Slip Extractor for 3.5mm screw	1
X101.34	Locking Drill Sleeve, 2.5mm	3
X101.29	Countersink 4.0mm	1
X901.10	Drill Bit with Q.C. Dia. 2.0mm x 100mm SS	2
X103.10	Screw Driver Shaft, Star driver for 2.7mm Locking screw	1
X103.12	Screw Driver 2.7 mm, Star Drive	1
X103.11	Screw Driver Cannulated, 2.5mm, Hexagonal (for 4.0mm C.C. screw)	1
X103.02	Double Drill Sleeve 2.0mm/2.7mm	1
X103.07	Locking Drill Sleeve 2mm for 2.7mm screw	2
X904.04	Guide Wire Simple Dia. 1.2mm x 230mm SS	2
X103.16	Torque Limiting Handle QC for 2.4/2.7mm screw	1
X101.24	Implant tray for Proximal Tibia 3.5mm Plate Left & Right	2
X101.25	Implant tray for Distal Tibia 3.5mm plate Left & Right	2
X101.26	Implant tray for LCP Small / RCP	1
X101.27	Implant Tray for Fibula 2.7 & 3.5mm	1
X101.21	Implant Tray for Periarticular Humerus & PHILOS	1
X101.42	Instrument / Implant Box for 3.5mm Locking Plate	1

Additional Instruments

X101.16	Screw Driver, Cannulated, for 3.7mm screw	1
X101.17	Screw Driver Shaft, Cannulated, for 3.7mm screw	1
X101.02	Direct Measuring Device for 3.7mm Locking Plate	1
X101.09	Guide Wire Sleeve, 1.5mm	2
X101.07	Drill Bit, 2.8mm x 180mm, Cannulated	1
X904.05	Guide Wire Simple Dia. 1.5mm x 230mm SS	2
X101.31	Self Centering Bone Holding Forcep Medium	1
X101.32	Reduction Forceps Serrated Medium	1
X101.33	Reduction Forceps Pointed Medium	1
X104.14M	Hohmann Retractor (Medium)	1
X101.38	Carbide Drill Bit 2.5mm	1
X101.39	Carbide Drill Bit 5.0mm	1

(X102) Instrument Set for 5.0mm / 4.5mm Locking System



Product Code	Name of Products	Qty.
X102.01	Depth Gauge, 4.5mm	1
X102.03	Double Drill Guide Sleeve 3.2mm / 4.5mm	1
X901.07	Drill Bit with Q.C. Dia. 3.2mm x 200mm SS	1
X901.06	Drill Bit with Quick Coupling, 3.2mm * 150mm	1
X901.08	Drill Bit with Quick Coupling, 4.3mm * 225mm	2
X901.12	Drill Bit with Q.C. Dia. 4.5mm x 150mm SS	1
X102.09	Locking Drill Sleeve 4.3mm for 5mm screw	2
X102.22	Locking Drill Sleeve 3.2mm for 5mm cancellous screw	2
X101.10	T Handle for LCP Sleeve	1
A780602150	K Wire, Simple, 2.0mm * 150mm	2
X102.14	Torque Limiting Screw Driver 5.0mm	1
X102.15	Screw Driver Shaft, 3.5mm, Hexagonal for 4.5/5.0mm screw	1
X102.16	Screw Device, 3.5mm, Hexagonal for 4.5/5.0mm screw	1
X101.19	T Handle with Quick Coupling for Drill / Tap	1
X102.17	Tap, 4.5mm	1
X102.25	AO Quick Coupling Adaptor	1
X102.26	Counter Sink	1
X102.27	Slip Extractor 5.0mm	1
X102.28	Hollow Mill for 5.0mm Screw	1
X102.19	Distal Femur Plate Tray	2
X102.20	Locking Lateral Tibia Plate Tray	1
X102.29	Broad & Narrow Plates Tray	1
X102.30	Screw Box	1
X102.31	Complete Instrument Set for 5.0 mm/4.5 mm Locking System	1

Additional Instruments

X102.02	Direct Measuring Device	1
X102.06	Drill Bit, 4.3mm * 200mm, Cannulated	1
X102.08	Guide Wire Sleeve, 2.0mm	1
X102.10	Guide Wire, 2.0mm * 230mm (Simple)	1
X102.11	Guide Wire, 2.0mm * 230mm (Threaded)	1
X102.12	Screw Driver Shaft, Cannulated, 5.0mm, Hexagonal	1
X102.13	Screw Driver, Cannulated, 3.5mm, Hexagonal	1
X104.14L	Hohmann Retractor (Large)	1
X102.21	Self Centering Bone Holding Forcep Large	1
X102.23	Reduction Forceps Serrated Large	1
X102.24	Reduction Forceps Pointed Large	1

Advantages for Surgeons

- Adjustable variable angles simplify complex fracture fixation.
- Reliable angular stability reduces implant failure.
- Modular construct flexibility reduces the need for multiple plate types.
- Compatible with both standard and MIS techniques.

Advantages for Patients

- Stable fixation minimizes micromotion and accelerates healing.
- Lower implant profile ensures comfort and reduces soft-tissue irritation.
- Allows early mobilization and functional recovery.

AOSYS®

Revolutionising healthcare with innovation

Aosys Private Limited

Manufacturing Plant

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Email : info.aosys@gmail.com

Visit Us : www.aosyspvtltd.com, www.aosys.in

Company Details



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