

# EVOCON

PROGRESSIVELY CONSTRAINED SYSTEM

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Evolving The State Of  
Revision Knee Arthroplasty

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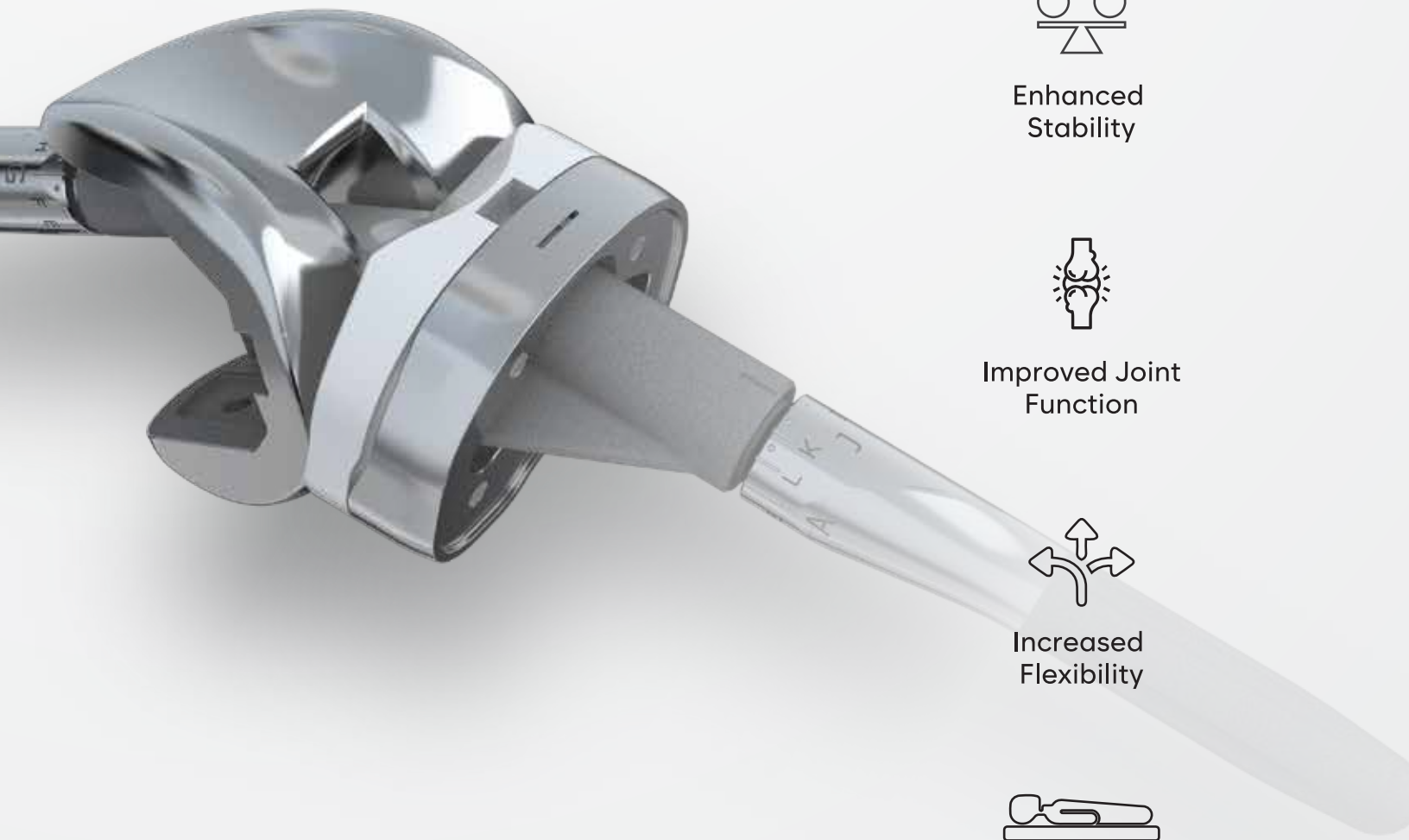






**REVISION  
REDEFINED**

The progressively constrained condylar knee (PCCK) system has been meticulously designed to increase coronal plane stability by using a larger tibial post with a deep femoral box, mainly in cases of difficult primary and revision total knee replacement surgeries



## PCCK Implants Offer

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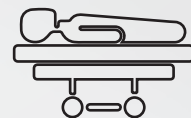
Enhanced  
Stability



Improved Joint  
Function



Increased  
Flexibility



Reduced  
Post-operative  
Instability

\*Benefits patients with severe  
bone loss and joint instability



# EVOCON

Revision Knee System has progressive constrained tibio femoral mechanism offering full constraint in extension and 5° of internal-external rotation in flexion for desired knee joint kinematics.





## **Femoral Component**

One of the most comprehensive revision knee system, with femoral size starting from 53 mm in AP with the smallest box in its category to reduce further bone loss. The box of evocon has been especially designed to have 4<sup>th</sup> condylar articulation to achieve desired constrainedness in extension while providing comfortable flexion

- Femoral implant is available in 6 sizes starting from 53 mm in AP
- Robust locking mechanism with extension rod (*primary locking with taper locking technology and secondary locking by femoral locking screw*)
- Single radii geometry allowing the ligamental isometry
- Reduced anterior flange for smooth translation of anterior patellar tendon



## Tibial Component

- Tibia available in 6 sizes, starting from 55 mm in ML
- Tibia is at 3° posterior slope with keel
- Highly polished surface with secure lock technology to lock insert without any micro motion
- 4 screw holes for augment locking and central hole for insert peg screw to lock offset stem
- Robust locking mechanism with extension rod (*primary locking with taper locking technology and secondary locking by tibial locking screw*)
- Accepts screwed tibial augments both half and full tibial augments

## Tibial Insert

- Deep dish design and proportionate bearing surface for increased contact area
- Tapered post for progressive constrained effect with femur
- Inserts available in 7 sizes of thickness starting from 9 mm up to 23 mm
- Deep anterior cutout provided for patellar tendon relief in mid to high flexion
- Inserts are given an anterior hole for peg post for secured locking and strength to post during high flexion
- Inserts made of UHMWPE from Orthoplastics, UK





## Offset Extension Rods

Monolithic offset extension rods are designed to offer offset of 0 mm, 2 mm, 4 mm and 6 mm, reducing the chance of lock failure and anterior cortex fracture

- Grit blasted surface and fluted design makes the rods suitable for both cemented and uncemented procedures
- Comprehensive sizing option available, starting from 8 mm -20 mm in diameter and 40 to 160 mm in length

## Augment

- Augments are made with 3D printing technology to have maximum accuracy
- Distal and posterior augments designed with interlocking technology
- Tibial augments are designed to have anatomical contouring to fit best with tibial plateau
- Distal femoral augments designed in 5, 10 & 15 mm
- Posterior femoral augments available in 5 & 10 mm
- Half and full tibial augments designed in 5, 10 & 15 mm



Versatile constrained system to accept femoral/ tibial cones and sleeve for major bone defects.

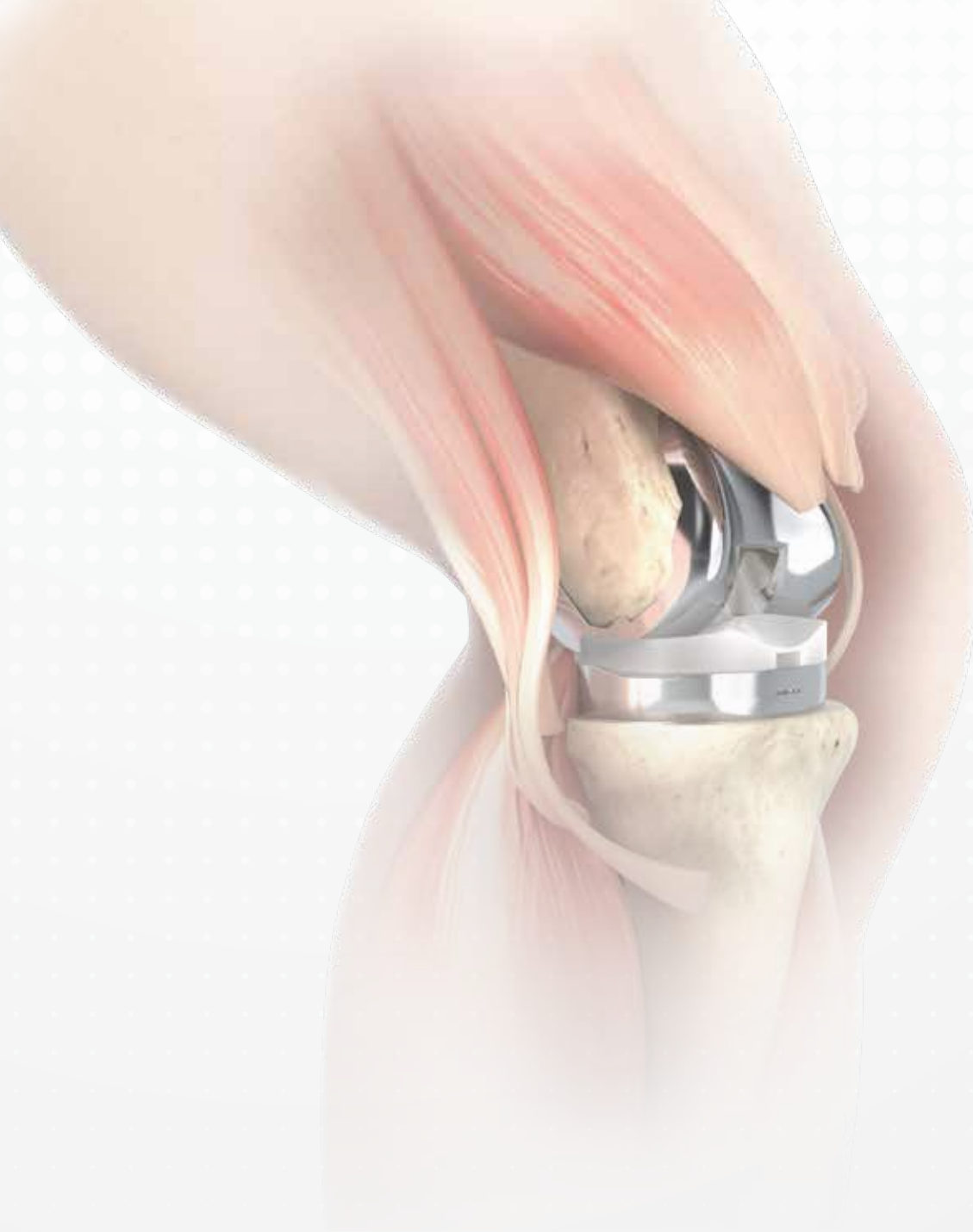
Precise and surgeon friendly instrumentation to achieve desired clinical outcome



TIBIAL COMPONENT

FEMORAL COMPONENT	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6
B	B	B	B	B		
C	C	C	C	C		
D			D	D	D	D
E			E	E	E	E
F				F	F	F
G					G	G





Pre- Op X-Ray

Post Op X-Ray



Pre and Post Op X-ray images illustrating successful clinical outcomes









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