



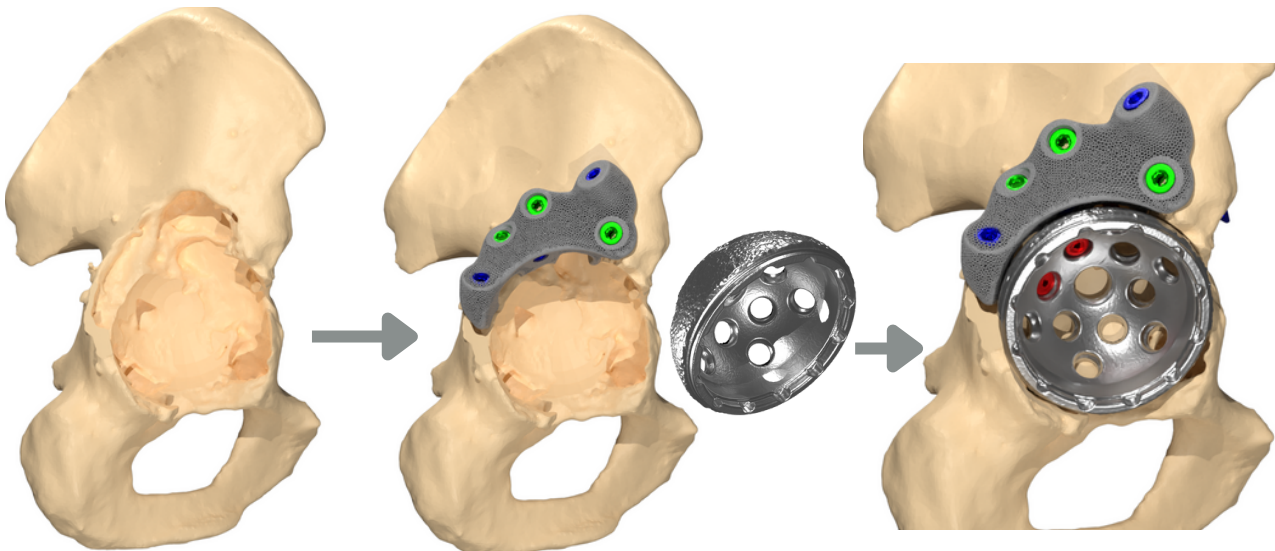
is proud to introduce the game changers  
in revision acetabular surgery



**Bose**

## Custom Columnar Docking\* (CCD) Augment

\* Docking – Divergent locking technology



**Simplify complex revision acetabular defects to a  
'primary' type situation with the CCD augment**

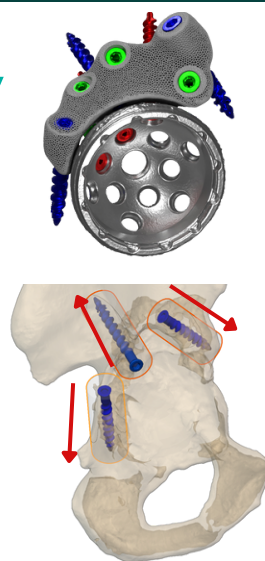
## The challenge with current augments



- Prolonged OR time & difficulty to fit augment to bone defect.
- Can result in non-rigid tenuous construct due to uniplanar fixation and screw locations not matching areas of good bone stock.
- May need to remove critical bone to fit augment. Sizes may not fit smaller patients especially in Asia.

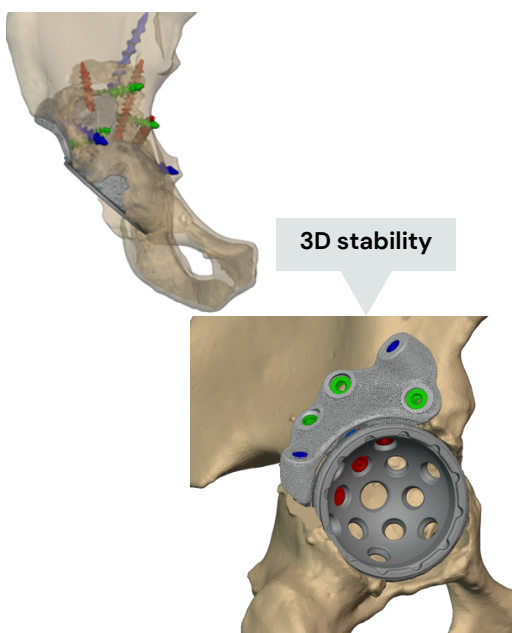
## Innovative Docking (CCD) Technology

The patented Custom Columnar Docking technology is a new novel breakthrough concept to get extended rigid fixation in narrow columnar corridors with locking screws using plane reorientation 'dog-ears' in custom locations. Divergent locking in columnar bone 'docks' the augment in a multiplanar matrix like a marine anchor eliminating micromotion and enhancing success.



## World's first 3D Stability Augment

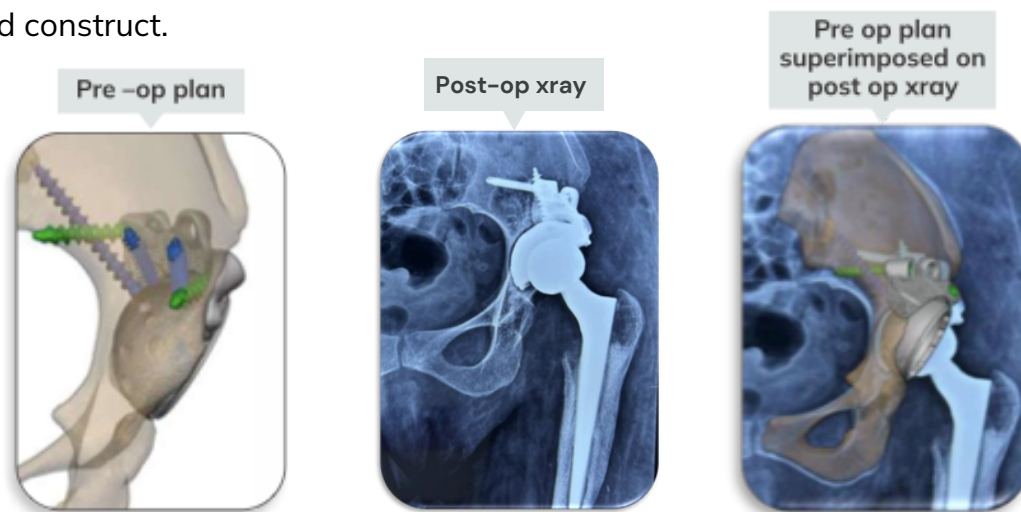
Three types of screws serving different roles of providing 3D stability



- **Compression screws:** (non-locking) perpendicular to augment to achieve compression of augment to host bone.
- **Docking screws:** CCD- Custom Columnar Divergent locking Anchors the augment to bone in a multi planar rigid clamp like framework to achieve an extremely rigid construct.
- **Dome screws:** passed through highly porous standard cup, traverses through special custom windows in CCD augment to achieve independent socket screw purchase.

## Key Advantages for Surgeons and Patients

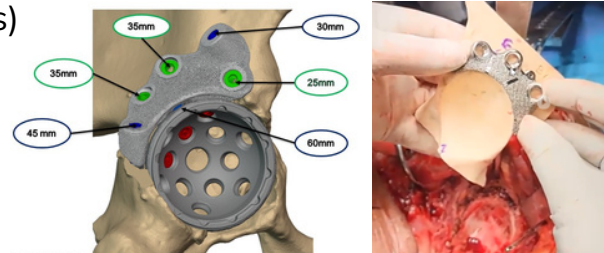
- **Precise fit:** Matches defect precisely and self-locks. Saves crucial OR time enhancing safety for patient. Suitable even for small patients.
- **Surgical ease:** Seamless execution of pre op plan making it extremely surgeon friendly. Dedicated k-wire holes provided for provisional fixation.
- **Patient safety & reducing complications:** Screw holes are custom made for bone corridors and length of screws provided pre op. This keeps screws away from critical structures avoiding complications.
- **Unmatched stability and rigidity:** The CCD screws works in conjunction with dome screws & compression screws to provide 3D stability of the construct reducing the risk of loosening.
- **Versatile compatibility:** Compatible with any highly porous titanium cementless cup Bone cement used for unitization of cup to augment.
- **Best possible screw purchase:** As screw holes are custom made for bone stock, best possible screw purchase in available bone is possible. Longer and divergent locking (docking) screws possible through narrow columnar corridors providing a clamped construct.



- **Enhanced Osteointegration:** Rigidity of construct along with special proprietary lattice structure facilitating rapid osteointegration of augment.
- **Tailored low profile design:** Augment has lowest possible profile for given situation . Custom windows at critical areas so that dome screws can access the bone.
- **Cost saving:** Significant reduction in OR time results in cost saving benefits.
- **Long term success:** Patient matched implant with 3D stability have potential to increase long term success. Ideal for all Paprocki type 2 and 3 defects. Not suitable for Pelvic discontinuity.

# Experience today the future of complex acetabular revision surgery with the Bose CCD Augment

- CT scan of patient (1 mm slice thickness) uploaded to jajalmedical.com.  
*(Our proprietary software will take care of metal artefacts from existing implants, so go ahead and scan the patient with implant.)*



- Patient-specific CCD augment specifications sent for surgeon approval.
- CCD augment and surgical details received within a short period along with small bone model that is sterilised for intra-op use.



Choose Excellence in Orthopaedic Solutions

**Want to try it first-hand?**

Receive a sample model by contacting us today

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