



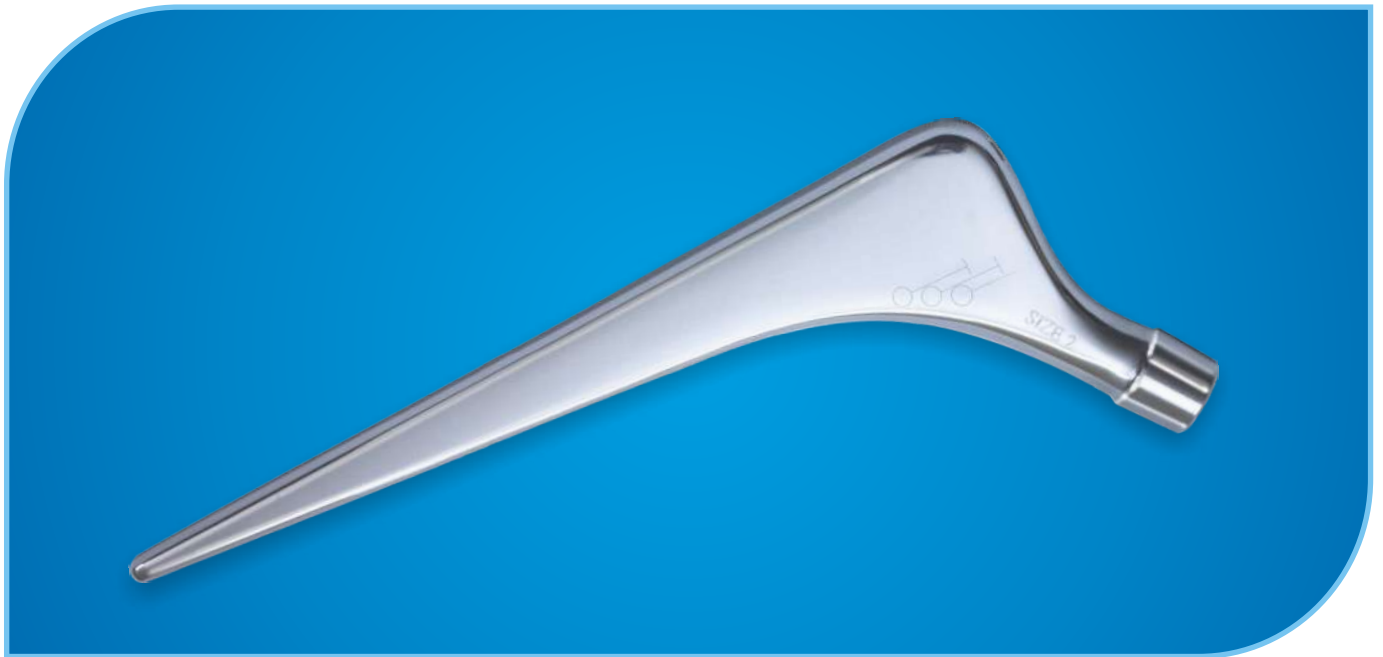
# ALTIUS™

## Bipolar Hip Implant System



# PRODUCT MANUAL

## Hip Femoral Stem (Polished & Double Tapered)



- Made of High Nitrogen stainless steel as per ISO 5832 Part 9 and ASTM F 1586.
- High strength, Corrosion resistant and Bio-compatible
- Neck Stem angle of 125°.

Sl.No.	Ref.No.	Size	Type	Offset (mm)	M/L Dimension (mm)	Stem Length (mm)	Neck Length (mm)
1	AHFS3600	-	Small	36.0	11.0	127	46.0
2	AHFS3801	1	Narrow	38.0	13.5	149	48.0
3	AHFS3802	2	Narrow	38.0	16.0	149	48.0
4	AHFS3803	3	Narrow	38.0	18.0	149	48.0
5	AHFS4452	2	Standard	44.5	16.0	149	57.0

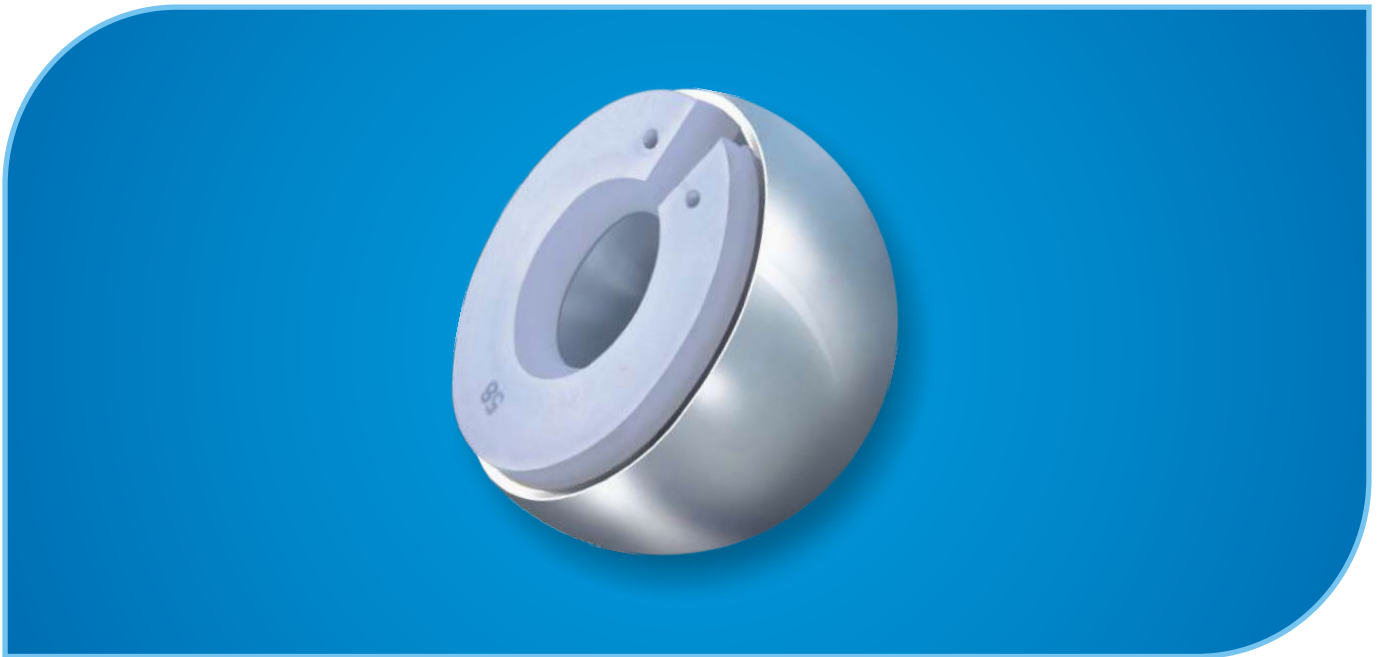
## Hip Femoral Head



- Made of High Nitrogen stainless steel as per ISO 5832 Part 9 and ASTM F 1586.
- High strength, corrosion resistant and Bio-compatible

Sl.No.	Ref. No.	Diameter (mm)	Neck Length (mm)
1	AHFH22S0	22	Standard
2	AHFH22P4	22	+4.0mm
3	AHFH22P8	22	+8.0mm

## Hip Bipolar Head



- Shell made of High Nitrogen stainless steel as per ISO 5832 Part 9 and ASTM F 1586
- High strength, corrosion resistant and Bio-compatible
- Liner made of UHMWPE

Sl.No.	Ref. No.	Outer Diameter (mm)	Inner Diameter (mm)
1	AHMBPC40	40	22
2	AHMBPC42	42	22
3	AHMBPC44	44	22
4	AHMBPC46	46	22
5	AHMBPC48	48	22
6	AHMBPC50	50	22
7	AHMBPC52	52	22
8	AHMBPC54	54	22
9	AHMBPC56	56	22

## Design Rationale of Altius Bipolar Head



Positive eccentricity allows for centres to align themselves to the proper anatomic position and proper load distribution when downward force is applied. The bipolar dual articulation uses primary internal articulation to help reduce secondary acetabular articulation and associated acetabular wear.

### Altius Bipolar Head Assembly

#### Step-1

After cleaning and drying the femoral neck trunnion, impact the appropriate femoral head onto the stem with the femoral head impactor.

#### Step-2

Snap the polyethylene liner over the assembled femoral head.

#### Step-3

Place the shell over the liner and snap it into its locked position. An audible click will be heard when locking ring snaps into place.

#### Step-4

Check the interlock of components and reduce the bipolar head into the acetabulum.

## Centralizer

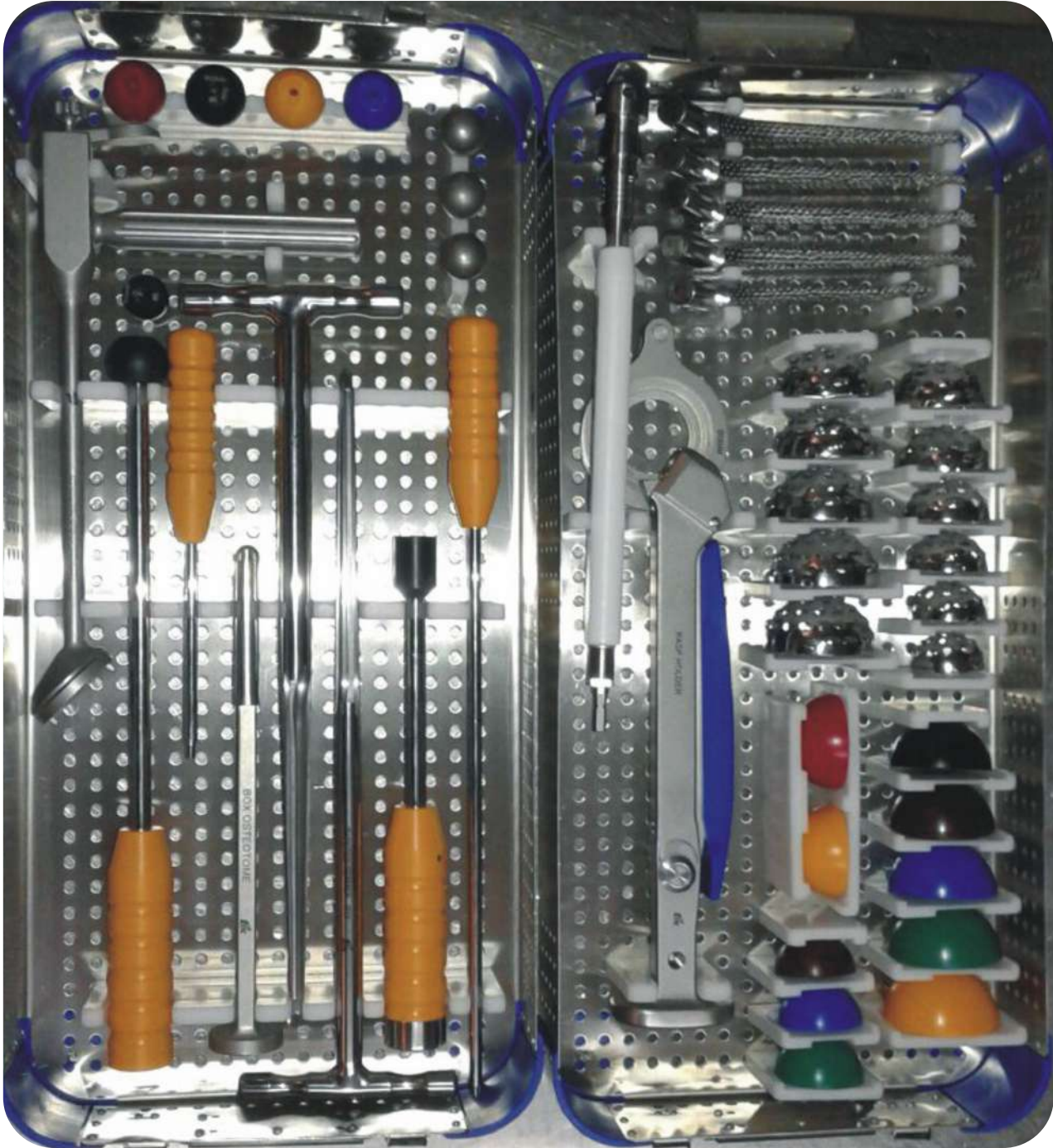


- Made of PMMA (Polymethyl methacrylate).
- Provides a minimum of 3mm clearance at the bottom of the Stem.
- The centralizer is designed to allow stem to engage distally within the cement mantle.

## Cement Restrictor



- Made of UHMWPE.
- This is connected to the end of the Stem and is used to control the Cement flow.





**TTK Healthcare Ltd., Ortho Division**

No.19, Luz Church Road, Mylapore, Chennai - 600 004. Ph: 044-24671025