



## Uncemented - Acetabular Cup System

3D Acetabular Shell – Titanium Alloy Ti-6Al-4V (ISO:5832-3)

Acetabular Liner – UHMWPE Highly Cross-linked (ISO:5834-2)

Femur Head - Stainless Steel - 316L (ISO:5832-1)

Fixation Screw - Titanium Alloy Ti-6Al-4V (ISO: 5832 - 3)

Hole Eliminator Screw - Titanium Alloy Ti-6Al-4V (ISO: 5832 - 3)

### Manufactured By :

#### Mbitious Medical Devices LLP

Survey Number 632, Phase 4, Plot Number 632  
GIDC Vatva, Vatva Industrial Estate, Daskroi,  
Ahmedabad, Gujarat, INDIA - 382445

### Customer Care Contact :

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### Design Features - 3D Acetabular Shell

1. Design: Our highly porous acetabular shells are designed to enhance osseointegration, providing a stable and long-lasting joint replacement solution. Utilizing advanced 3D printing technology, we produce implants that mimic the natural bone structure, offering superior performance.
  - a. Optional three-cluster hole design for better screw fixation and stability.
  - b. The taper locking mechanism provides for easy insertion and difficult extraction.
2. Material: Titanium alloy Ti-6Al-4V (ISO:5832-3) has high fatigue resistance and excellent biocompatibility for the long-term success of Acetabular Shell.
3. High Porosity: Enhances bone in-growth and stability.
4. Biocompatibility: Ensures patient safety and long-term success.
5. Advanced Surface Technology: Promotes faster healing and integration.
6. Diameter Range: 48mm to 60mm to meet individual patient needs.

### Design Features - Acetabular Liner

1. Highly Cross-Linked Polyethylene (XLPE) (ISO: 5834 - 2), minimizes wear & increases durability.
2. Taper Lock design provides easy insertion.
3. **Liner +4 N:** It is a specialized hip replacement component designed to enhance joint stability and functionality. Similar to the standard neutral liner, the +4 neutral liner provides smooth of femoral head coverage, supporting a secure articulation also Features a wide-face chamfer optimized for mobility.

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**Unleashing Mobility with Precision Joints.**

### Design Features - Acetabular Liner

4. **Liner +4 10°:** The 10° angle enhances joint alignment and biomechanics, optimizing the liner's positioning within the acetabular shell. This precise angulation supports balanced load distribution and reduces the risk of dislocation by refining the femoral head's positioning within the hip joint.
5. Six equidistant anti-rotational lugs are provided to fit with the acetabular shell.
6. The neutral +4 mm neutral liner provides 180° of head coverage.
7. The head center is lateralized by 4 mm to increase thickness in the cup's dome region.
8. Offered inner dia. In 28mm, 32mm, and 36mm.

### Design Features - Femur Head

1. The standard femur head is made of SS316L (ISO:5832-1).
2. Head Dia. 28mm, 32mm, and 36mm 12/14 Taper are available in different neck length provide optimal recreation of the patient's anatomy.

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## ORDER GUIDE

|               |  |  |  |  |
|---------------|---|---|---|---|
| CUP DIA. (MM) | 3D ACETABULAR SHELL<br>(PRODUCT CODE)   | ACETABULAR LINER +4 NEUTRAL<br>(PRODUCT CODE)                                     | ACETABULAR LINER +4 10°<br>(PRODUCT CODE)   | FEMUR HEAD<br>DIA.(MM)  |
| Ø44           | 107.02.044  | 108.28.144  | 108.28.244  | Ø28   |
| Ø46           | 107.02.046  | 108.28.146  | 108.28.246  |   |
| Ø48           | 107.02.048  | 108.32.148  | 108.32.248  | Ø32   |
| Ø50           | 107.02.050  | 108.32.150  | 108.32.250  |   |
| Ø52           | 107.02.052  | 108.36.152  | 108.36.252  | Ø36   |
| Ø54           | 107.02.054  | 108.36.154  | 108.36.254  |   |
| Ø56           | 107.02.056  | 108.36.156  | 108.36.256  |   |
| Ø58           | 107.02.058  | 108.36.158  | 108.36.258  |   |
| Ø60           | 107.02.060  | 108.36.160  | 108.36.260  |   |

## ORDER GUIDE

| FEMUR HEAD DIA. (MM) | NECK LENGTH (MM) | PRODUCT CODE |
|----------------------|------------------|--------------|
| Ø28                  | +1.5             | 104.28.015   |
|                      | +5.0             | 104.28.050   |
|                      | +8.5             | 104.28.085   |
|                      | +12.0            | 104.28.120   |
|                      | +15.5            | 104.28.155   |
| Ø32                  | +1               | 104.32.010   |
|                      | +5               | 104.32.050   |
|                      | +9               | 104.32.090   |
| Ø36                  | -2               | 104.36.200   |
|                      | +1.5             | 104.36.015   |
|                      | +5               | 104.36.050   |
|                      | +8.5             | 104.36.085   |
|                      | +12              | 104.36.120   |

## ORDER GUIDE



### Fixation Screw

| SCREW SIZE       | PRODUCT CODE NO. |
|------------------|------------------|
| DIA. 6.5 X 15 MM | 110.65.015       |
| DIA. 6.5 X 20 MM | 110.65.020       |
| DIA. 6.5 X 25 MM | 110.65.025       |
| DIA. 6.5 X 30 MM | 110.65.030       |
| DIA. 6.5 X 35 MM | 110.65.035       |
| DIA. 6.5 X 40 MM | 110.65.040       |
| DIA. 6.5 X 45 MM | 110.65.045       |

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### Hole Eliminator Screw

| SCREW SIZE | PRODUCT CODE NO. |
|------------|------------------|
| M10 X 1.5  | 113.01.010       |

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