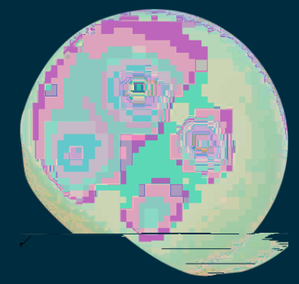
The hip joint series

## Ceramic Femoral Head

- Solid, preeminent wear resistance
- Excellent wettability and lubrication
- Excellent biocompatibility, lowest tissue reaction by ceramic particles, effectively reduce the wear debris and osteolysis
- Strong corrosion resistance, stable performance
- No metal ions released in the human body
- No adverse tissue reaction, no allergic reaction

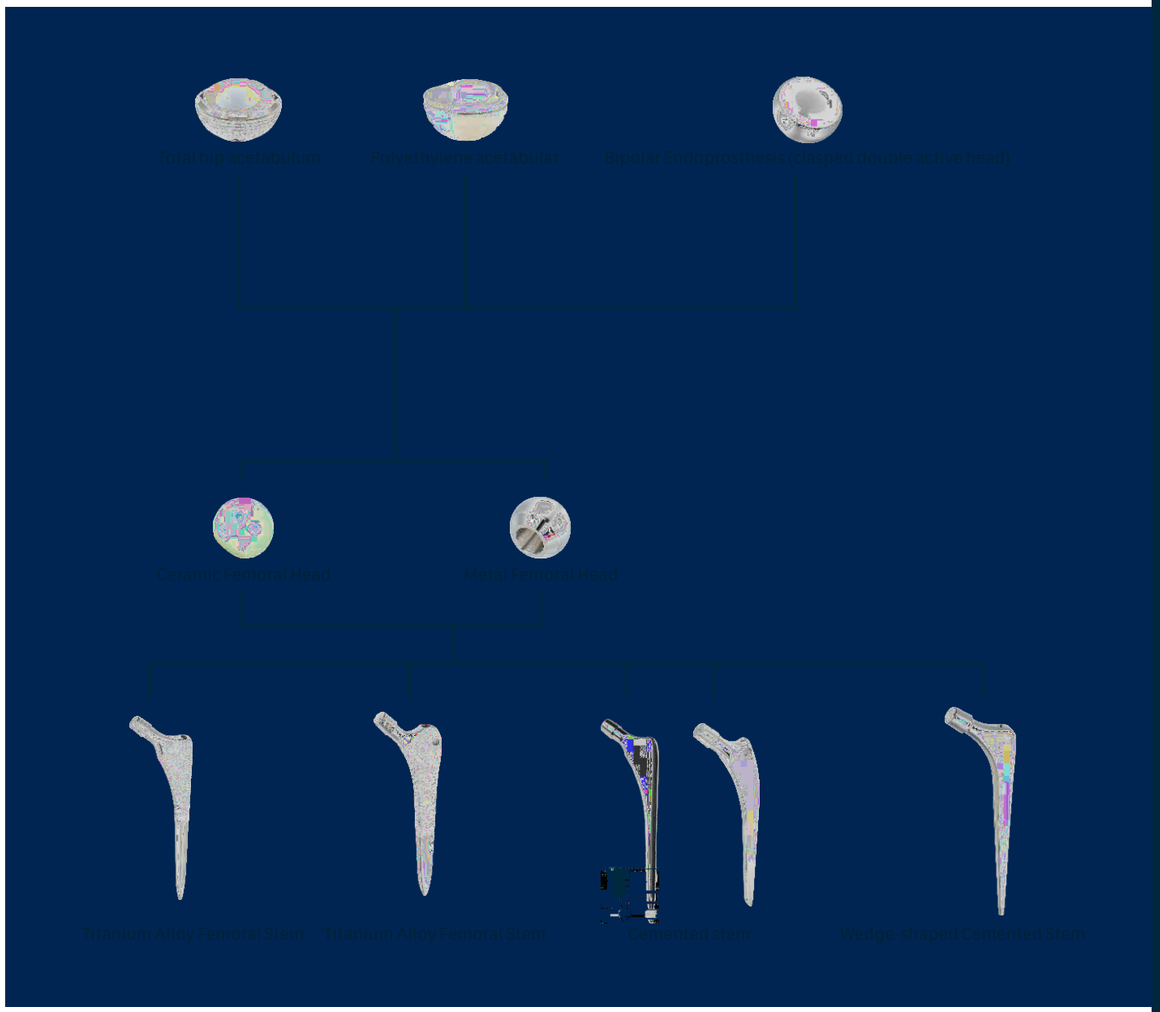
| | | |
|---|---|---|
| Ceramic Femoral Head | High purity alumina based ceramics | 28S<br>28M<br>28L |

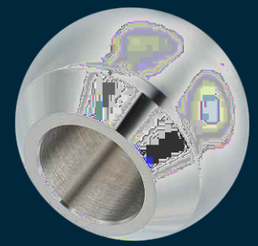


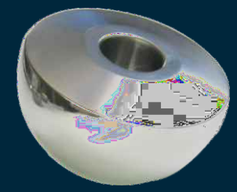
## Three outstanding advantages of ceramic joint:

Super wear resistance, excellent biocompatibility, super smooth surface processing

- The first registered enterprise of ceramic hip joint in China
- imported ultra-high molecular weight polyethylene and high purity alumina based ceramics
- precision manufacturing by International advanced processing equipment, surfacing by vacuum plasma spraying technology
- Professional surgical instruments ensure operation quality and postoperative recovery







## Metal Femoral Head

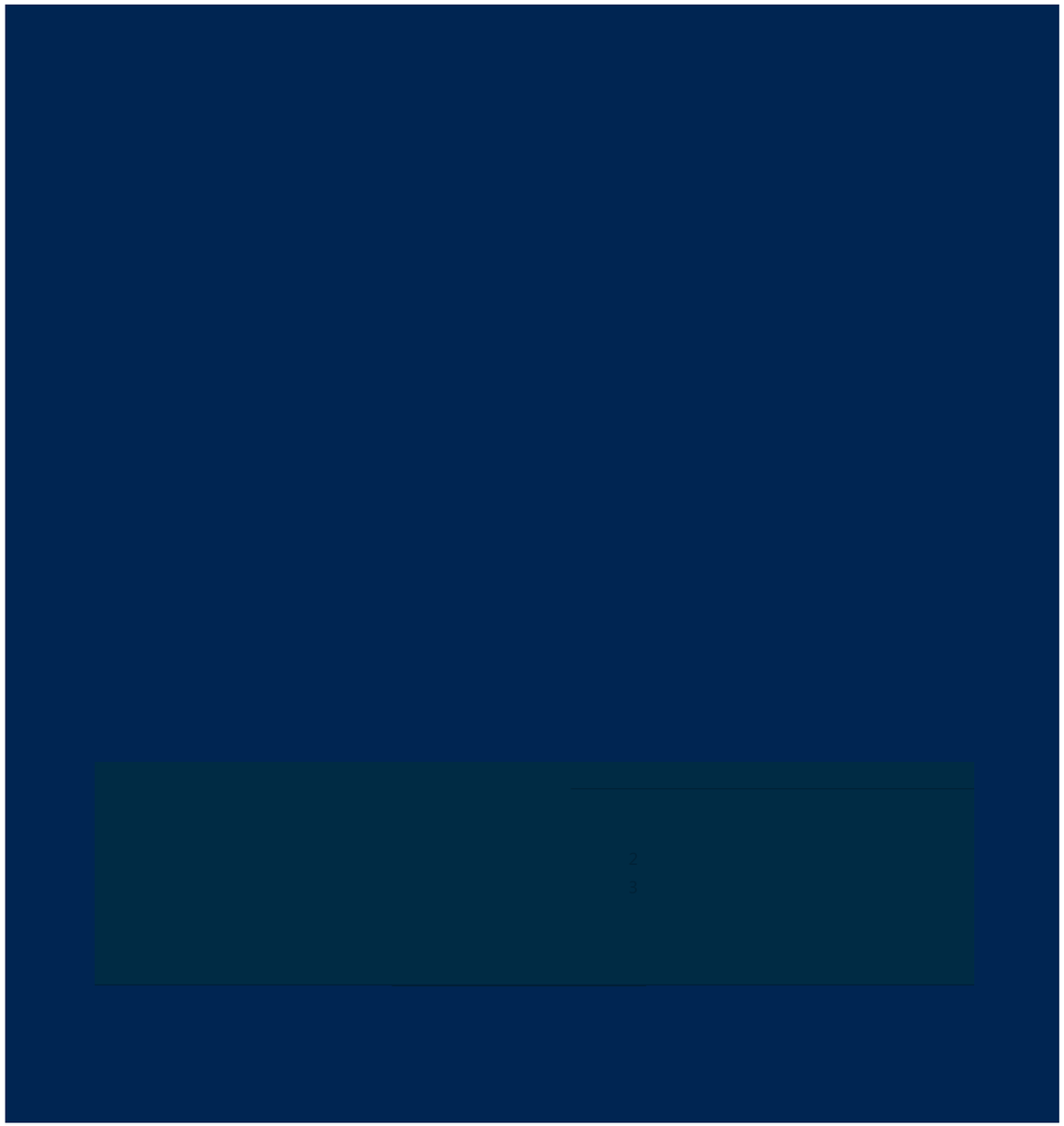
- Precision machining with cobalt chromium molybdenum alloy materials
- head surface mirror polished, high hardness, low wear, improve the life of the prosthesis;
- The inner cone adopts international universal 12/14 standard self-locking design, firmly combined with prosthesis stem.
- The narrow ring in basal part of neck section reduces the barrier between the neck and acetabulum, expand the activity range of the hip joint, and reduce incidence of dislocation
- Variety of specifications meets clinical requirement

| | | |
|---|---|---|
| Metal Femoral Head | Cobalt chromium molybdenum alloy | 22S |
| | | 24M |
| | | 24L |
| | | 26S |
| | | 28M |
| | | 28L |
| | | 28XL |

## Unipolar Endoprosthesis(hemi hip active head)

- Specialized femoral stem prosthesis for total hip replacement
- Processed with cobalt chromium molybdenum alloy bar, ball head surfacing polish, reducing the interface wear
- The inner cone adopts international universal 12/14 standard self-locking design, firmly combined with prosthesis stem.
- Variety of specifications meets clinical requirement

| | | |
|---|---|---|
| Unipolar Endoprosthesis (hemi hip active head) | Cobalt chromium molybdenum alloy | 36 |
| | | 38 |
| | | 40 |
| | | 42 |
| | | 44 |
| | | 46 |
| | | 48 |
| | | 50 |
| | | 52 |
| | | 54 |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## Titanium Alloy Femoral Stem

- Force line of prosthesis stem and the anatomic axis of femoral medullary cavity perfectly match
- No collar design
- A variety of models, domestic human bone coverage rate reach 95%
- The proximal three-dimensional wedge section structure ensures the maximal matching of proximal joint prosthesis and medullary cavity
- The proximal end of the coronal plane, sagittal plane and transverse section are designed in wedge shape, offering to the prosthesis excellent anti sinking and anti rotation performance, ensuring its early stability
- Three-dimensional wedge shape design, making the stress evenly transmitted to the proximal end of the diaphysis, to avoid stress concentration
- The design of single arc in the proximal end, take full advantage of the arch design philosophy of the bridge, enhance the bearing capacity of the proximal end of prosthesis. The length of the stem is designed into isthmian of the medullary cavity, to enhance the media-distal fixation
- High polished and bullet head design in distal end, significant reduce the stress shielding after prosthesis implantation
- High polished collar area, minimize the impact wear
- The ideal micro porous surface of proximal prosthesis, pore diameter 100-300 micron, provides good biological fixation interface and reliable long-term fixation effect
- HA prosthesis sprayed hydroxyapatite coating, improve the biocompatibility of the prosthesis and effectively induce bone ingrowth

| Name | Material | Size | Combined | Neck |
|---|---|---|---|---|
| Titanium Alloy Femoral Stem | Titanium Alloy | 1 | 6 | 140 |
| | | 2 | 7 | 145 |
| | | 3 | 8 | 151 |
| | | 4 | 9 | 156 |
| | | 5 | 10 | 162 |
| | | 6 | 11 | 167 |
| | | 7 | 12 | 173 |

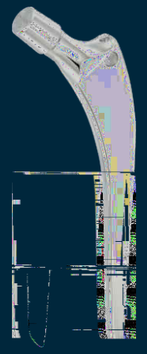




## Cemented stem

- The design of prosthesis based on the latest bone cement technology, equiped with distal plug
- Processed with cobalt chromium molybdenum alloy, surfacing mirror polish, minimize the interface wear between prosthesis and bone cement
- Distal part is equiped with a central device, ensure the prosthesis is in the center of the medullary cavity, and the bone cement is uniformly distributed around the prosthesis
- The design of double wedge in proximal transverse section, perfectly match the proximal medullary cavity, make the stress transmit to the diaphysis, and provide good anti rotation performace

| Name | Material | Size | Combined | Neck |
|---|---|---|---|---|
| Cemented stem | Cobalt chromium molybdenum alloy | 0 | 5 | 135 |
| | | 1 | 5.5 | 140 |
| | | 2 | 6 | 145 |
| | | 3 | 6.5 | 150 |
| | | 4 | 7 | 155 |

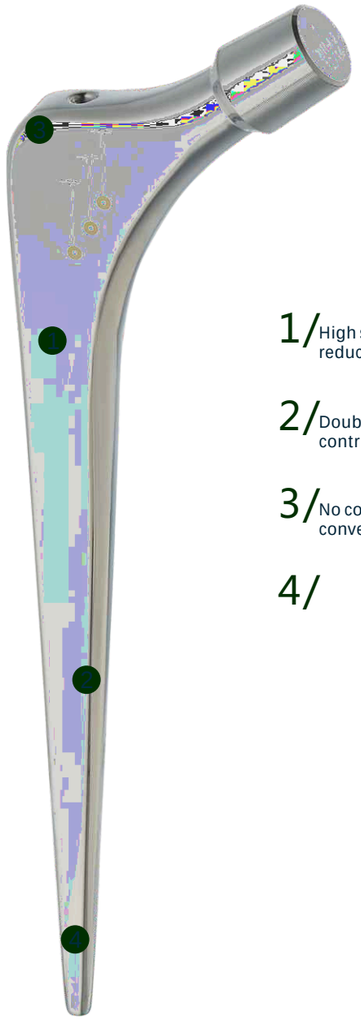


## Cemented stem

- Collar design
- Double wedge design, conform to femoral medullary cavity
- High surface polished, reduced friction coefficient and reduced bone cement grinding
- Automatic centering arc structure, no need to install distal center device
- Multiple sizes, greatly meet the clinical requirements

| Name | Material | Size | Combined | Neck |
|---|---|---|---|---|
| Cemented stem | Cobalt chromium molybdenum alloy | 0 | 5.5 | 136.5 |
| | | 1 | 6.5 | 137 |
| | | 2 | 7.5 | 138 |
| | | 3 | 8.5 | 138.5 |
| | | 4 | 9 | 139 |

## Wedge-shaped Cemented Stem

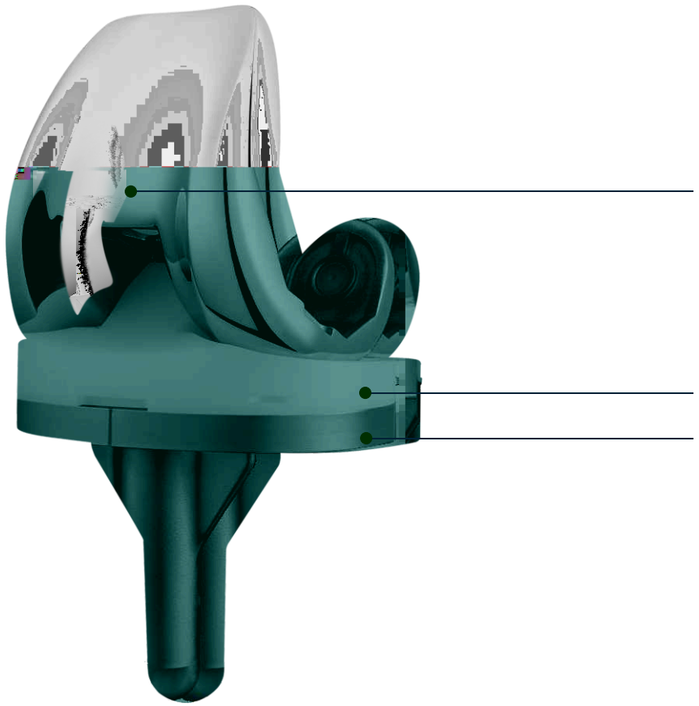



1/ High surface polished,
reduced friction coefficient and reduced bone cement grinding

2/ Double wedge stem design,
contribute to the transmission and dispersion of stress

3/ No collar design,
convenient to adjust thespi

4/



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