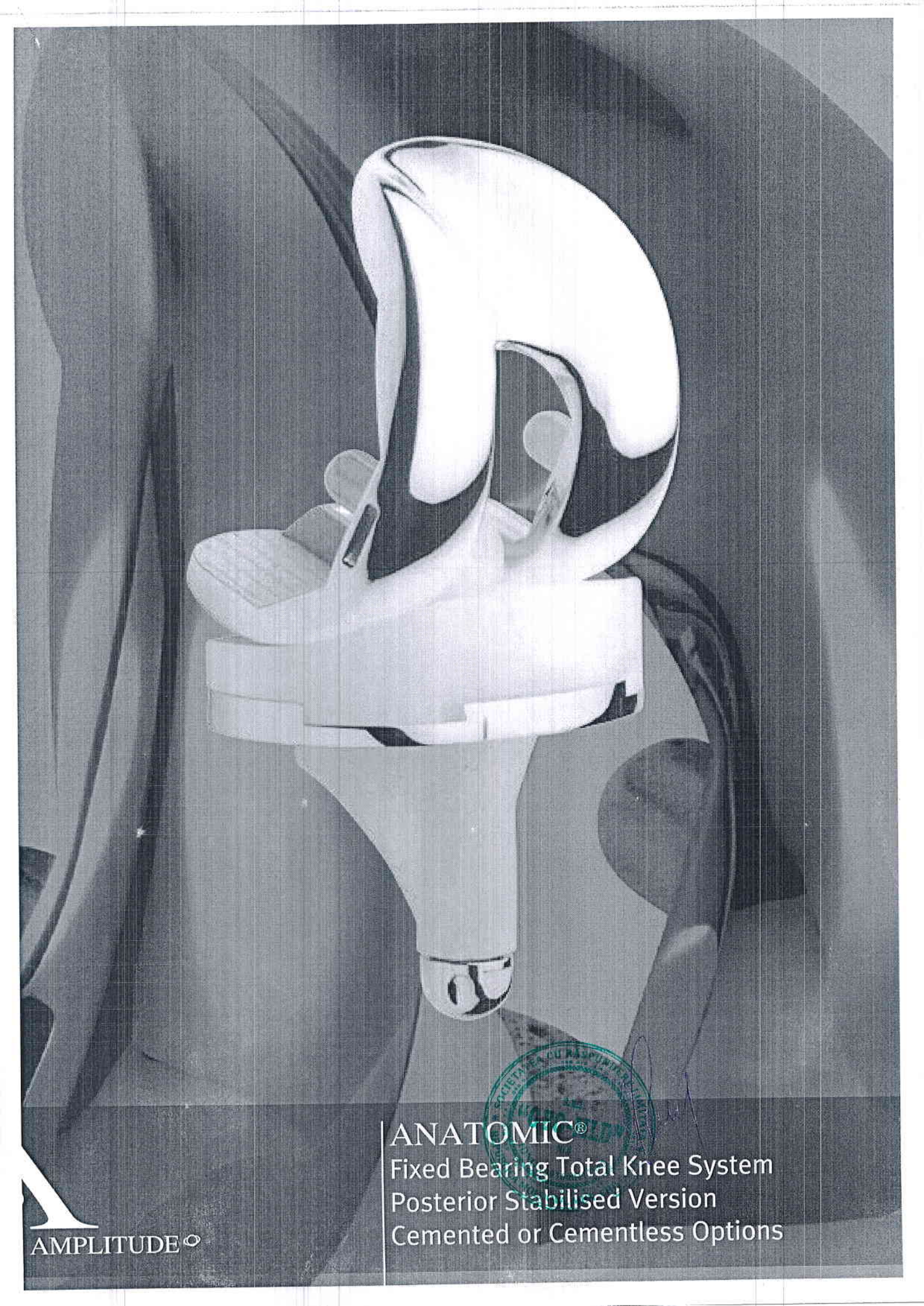
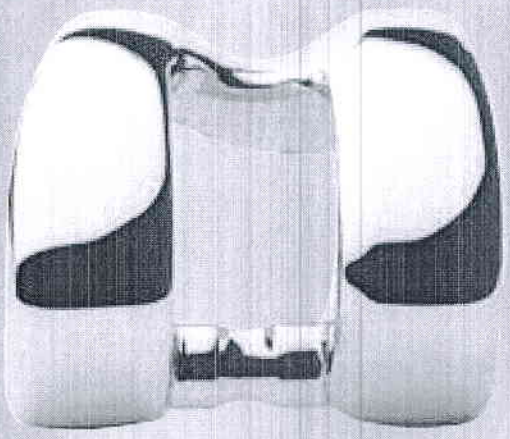


# ANATOMIC®

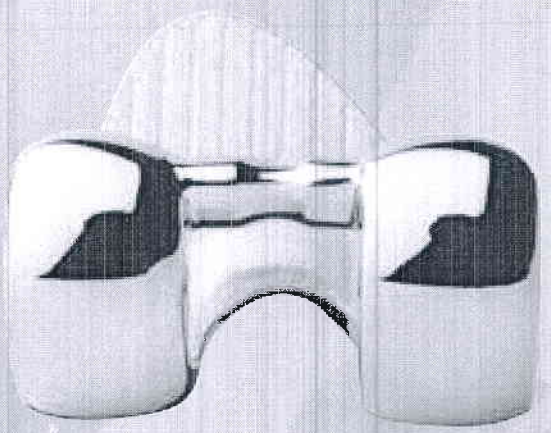
## Fixed Bearing Total Knee System
## Posterior Stabilised Version
## Cemented or Cementless Options

AMPLITUDE

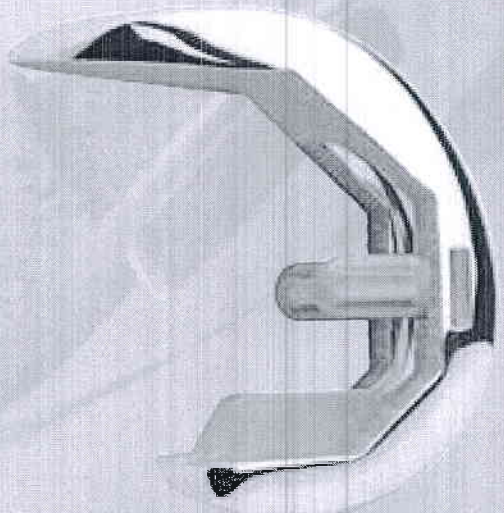
# ANATOMIC®



- Anatomic femoral component design based on a study of 420 knees digitised using the AMPLIVISION® navigation system
- Mediolateral coverage matches bone morphology, resulting in no overhang: 2 mm increments from Sizes 0 to 4 and 3.2 mm increments for Sizes 4 to 8
- Only 2.6 mm difference in anteroposterior height between sizes
- Lateralised trochlear groove better reproduces natural anatomy



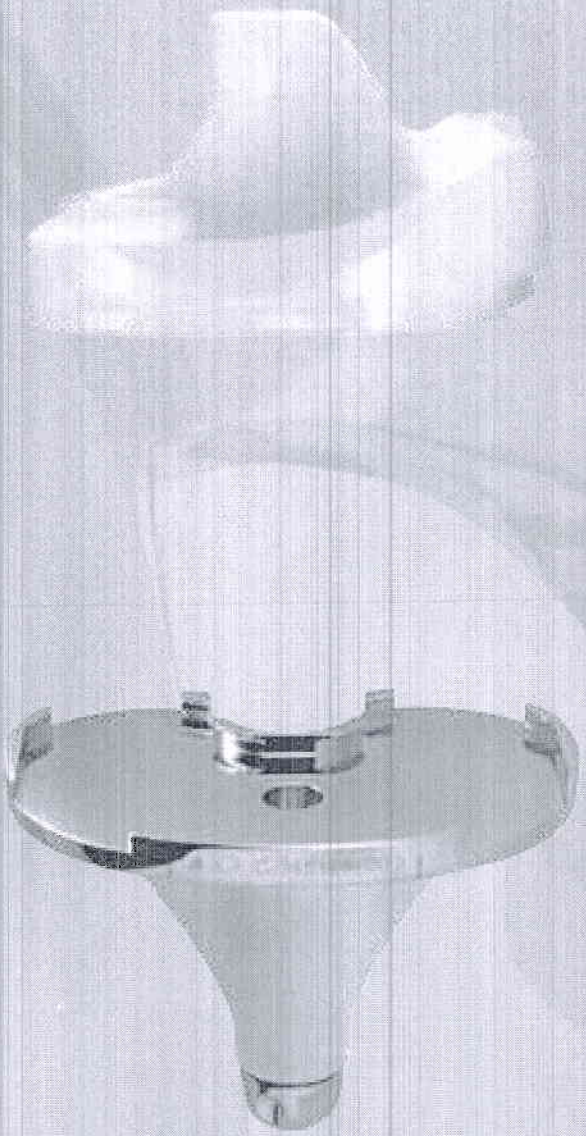
- Centred cage is proportionately scaled, thereby preserving bone stock
- Posterior stabilisation cam ensures stability during flexion while allowing adequate rotational movements



- Single radius of curvature from 0° to 100° flexion. Radius of curvature then decreases at posterior aspect of condyles to allow for high flexion
- 6° anterior cut preserves the cortex
- Material: Cobalt-chrome (CoCr)

# ANATOMIC® : posterior-stabilized total knee replacement

- Posterior-stabilised, fixed bearing, primary total knee replacement
- Mediolateral implant coverage matches bone morphology
- Quasi-anatomic patellar-femoral joint
- Stability and range of motion are ensured:
  - in extension by congruent anterior rim
  - in deep flexion by delayed contact between post/cam stabilisation mechanism
- Nine femoral and tibial component sizes (Sizes 0 and 8 optional)
- Six insert heights (10 to 20 mm)
- Cemented and cementless versions: Plasma-sprayed Titanium (80 µm) and HAP (80 µm)



- Insert has curved anterior lip to ensure joint stability throughout range of motion. Posterior stabilisation (PS) mechanism engages when knee is flexed more than 90°
- Planar surface (large radius) posteriorly allows lateral compartment to roll
- Polyethylene insert is thicker in posteroinferior part of post where it makes contact with PS cam
- Material: Machined ultra-high molecular weight polyethylene (UHMWPE)

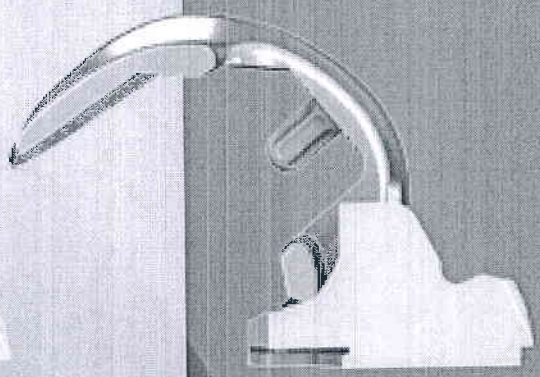
- Highly-polished contact surface reduces backside wear
- Insert clips into anterior edge of baseplate
- Grooves on lateral edges and around notch guide insert placement
- Material: Cobalt-chrome (CoCr)

- Patellar component:
  - Onset or inset
  - Dome-shaped contact area
  - Material: Ultra-high molecular weight polyethylene (UHMWPE)

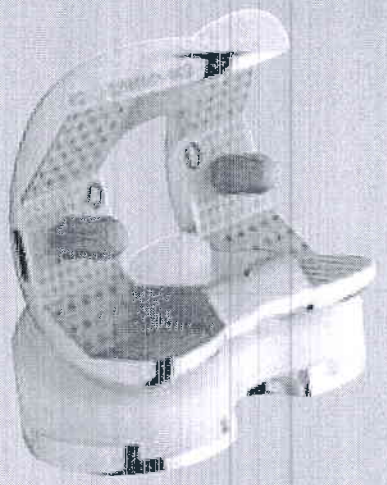
* The biomechanical problems of polyethylene as a bearing surface
Chun-Hsiung Huang 1,2, Jiann-Jong Liau3 and Cheng-Kung Cheng

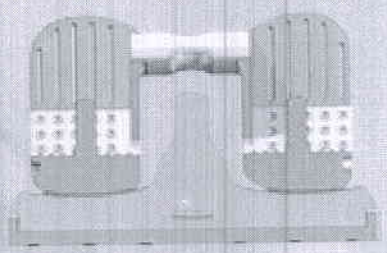
# ANATOMIC® : kinematics

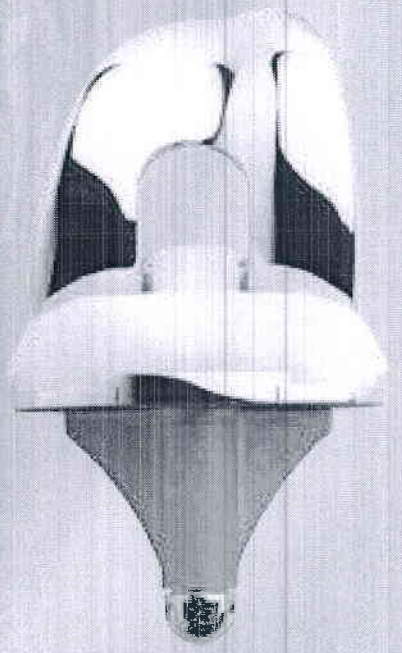
110° flexion



130° flexion







- Contact between PS cam and post beyond 90° flexion and posterior displacement of femoral component allow for deep flexion while ensuring stability
- Up to 10° recurvatum possible

- Middle of PS cam is rounded to allow condyles to rotate around post
- PE insert is thickest posteriorly to support posterior aspect of condyles

- Femoral component and insert can either be matched size-for-size or combined with implant one size above or below

# ANATOMIC® : implants

CE 0086

| | |
|---|---|
| Femoral component ANATOMIC® - Posterior-stabilised - cementless - HAP - Right - Sizes 1 to 7 | 1-0204301 to 1-0204307 |
| Femoral component ANATOMIC® - Posterior-stabilised - cementless - HAP - Left - Sizes 1 to 7 | 1-0204401 to 1-0204407 |
| Femoral component ANATOMIC® - Posterior-stabilised - cemented - Right - Sizes 1 to 7 | 1-0204501 to 1-0204507 |
| Femoral component ANATOMIC® - Posterior-stabilised - cemented - Left - Sizes 1 to 7 | 1-0204601 to 1-0204607 |
| Tibial baseplate ANATOMIC® - cementless - HAP - used with fixed insert - Sizes 1 to 7 | 1-0204801 to 1-0204807 |
| Tibial baseplate ANATOMIC® - cemented - used with fixed insert - Sizes 1 to 7 | 1-0204901 to 1-0204907 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 1 - Heights 10 to 20 | 1-0204710 to 1-0204715 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 2 - Heights 10 to 20 | 1-0204720 to 1-0204725 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 3 - Heights 10 to 20 | 1-0204730 to 1-0204735 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 4 - Heights 10 to 20 | 1-0204740 to 1-0204745 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 5 - Heights 10 to 20 | 1-0204750 to 1-0204755 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 6 - Heights 10 to 20 | 1-0204760 to 1-0204765 |
| Fixed insert ANATOMIC® - Posterior-stabilised - Size 7 - Heights 10 to 20 | 1-0204770 to 1-0204775 |
| Onset patellar implant cemented Ø 30 mm | 1-0200830 |
| Onset patellar implant cemented Ø 33 mm | 1-0200833 |
| Onset patellar implant cemented Ø 36 mm | 1-0200836 |
| Inset patellar implant cemented Ø 23 mm | 1-0200923 |
| Inset patellar implant cemented Ø 26 mm | 1-0200926 |
| Inset patellar implant cemented Ø 29 mm | 1-0200929 |

## Optional

| | |
|---|---|
| Femoral component ANATOMIC® - Posterior-stabilised - cementless - HAP - Right - Sizes 0 & 8 | 1-0204300 & 1-0204308 |
| Femoral component ANATOMIC® - Posterior-stabilised - cementless - HAP - Left - Sizes 0 & 8 | 1-0204400 & 1-0204408 |
| Femoral component ANATOMIC® - Posterior-stabilised - cemented - Right - Sizes 0 & 8 | 1-0204500 & 1-0204508 |
| Femoral component ANATOMIC® - Posterior-stabilised - cemented - Left - Sizes 0 & 8 | 1-0204600 & 1-0204608 |
| Fixed insert ANATOMIC® - Size 0 and Size 8 - Heights 10 to 20 | 1-0204701 to 1-0204706 |
| Tibial baseplate ANATOMIC® - cementless - HAP - used with fixed bearing - Sizes 0 & 8 | 1-0204800 & 1-0204808 |
| Tibial baseplate ANATOMIC® - cemented - used with fixed bearing - Sizes 0 & 8 | 1-0204900 & 1-0204908 |

Reference: DC.GB.064/2.0

AMPLITUDE

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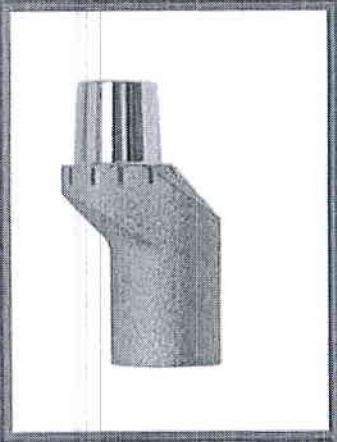
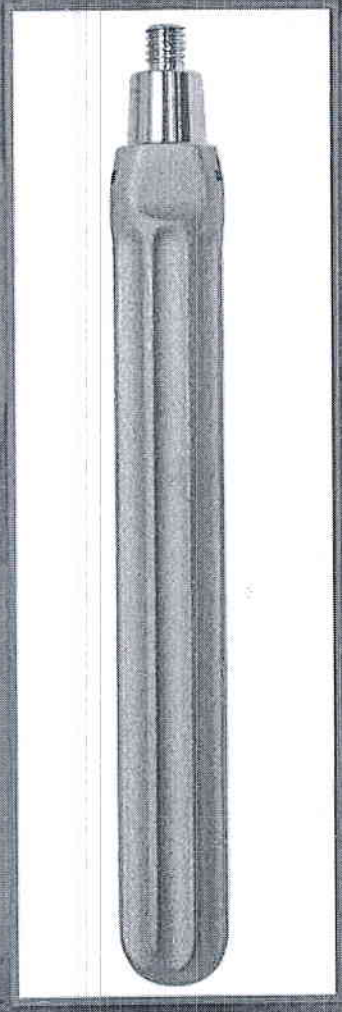
# SCORE® REVISION SYSTEM



- Offset connector allowing lateralization in space between the diaphyseal axis and the centre of the knee.
- Adaptable to femoral and tibial implant.
- Fixation by Morse cone and screwing.
- Offset: 2, 4 and 6 mm.

- Posterior and distal femoral wedge to be screwed.
- Thicknesses: 4 and 8 mm.
- Can be mixed.

- Tibial half-wedge to be cemented: enabling adjustment of the cortical cover.
- Thicknesses: 5, 10 and 15 mm.



- Tibial and/or femoral extension stem.
- Use with or without an off-centre connector.
- Anti-rotation grooves.
- Diameters: 10, 12, 14, 16, 18 and 20 mm.
- Lengths: 75, 100, 150 and 200 mm.

- Resurfacing patella Ø30, 33, and 36 mm.
- Dome-shaped patella.
- To be cemented.