# Aesculap<sup>®</sup> Columbus<sup>®</sup> Revision

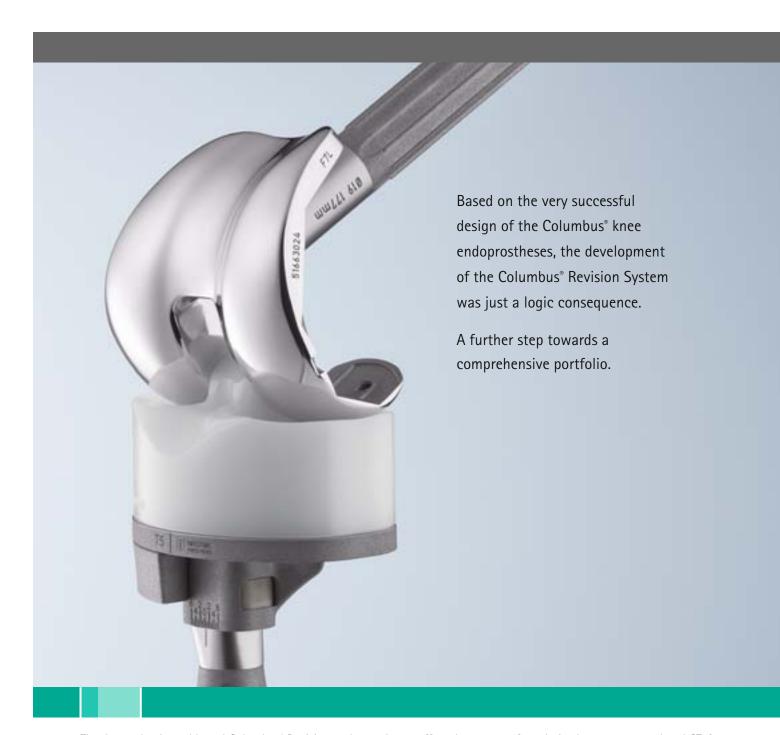
# Knee endoprostheses



Aesculap Orthopaedics



### Columbus® Revision



The demand-oriented based Columbus® Revision endoprostheses offers the surgeon free choice between manual and CT-free OrthoPilot® navigated surgical technique. Depending on the situation of the collateral ligaments, the medial constrained (MC) or the varus/valgus stable high constrained (HC) polyethylene gliding surface will be selected during trial reduction. The design of both are based on the proven ultra congruent (UC) philosophy of the primary knee endoprostheses.

If e.g. just the tibia plateau of a primary Columbus\* is loose, you are free to choose the Columbus\* Revision tibia plateau with options for offset extension stems and hemi spacer by keeping the primary femur implant. The modularity of the system allows to combine primary gliding surfaces with the revision femur with various offset stem and spacer possibilities.



### COMPLETE - TREATMENT KNEE DEFECTS

Cruciate ACT HTO Unicondylar Bicondylar Revision non-hinged COLUMBUS\* REVISION

### Columbus® Revision



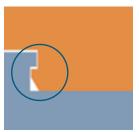
### Two polyethylene gliding surfaces for improved treatments

- MC (Medium Constrained)
- HC (High Constrained)
- Polys from 10 mm to 32 mm
- Choice of 4 patellae:
  - ø 27 x 7, ø 30 x 8, ø 33 x 9, ø 36 x 10 mm

#### Anatomical adaption

- 7 femur sizes left/right
  Constant small box
- Femur-offset AP +/- 4 mm
- Hyperextension 4°
  Flexion 130°
- Femur augments distal 5, 10 and 15 mm posterior 5, 10 and 15 mm
- Femur offset stems cemented (6°): lengths 77 and 157 mm ø 12 mm, 15 mm, 18 mm cementless (5°/7°): lengths 117 and 177 mm ø 12, 13, 14, 15, 16, 17, 18, 19, 20 mm





The proven fixation between poly and tibia of the primary Columbus\* knee system.



Improved safety of the polyethylene gliding surface locking mechanism in the revision tibia plateau.



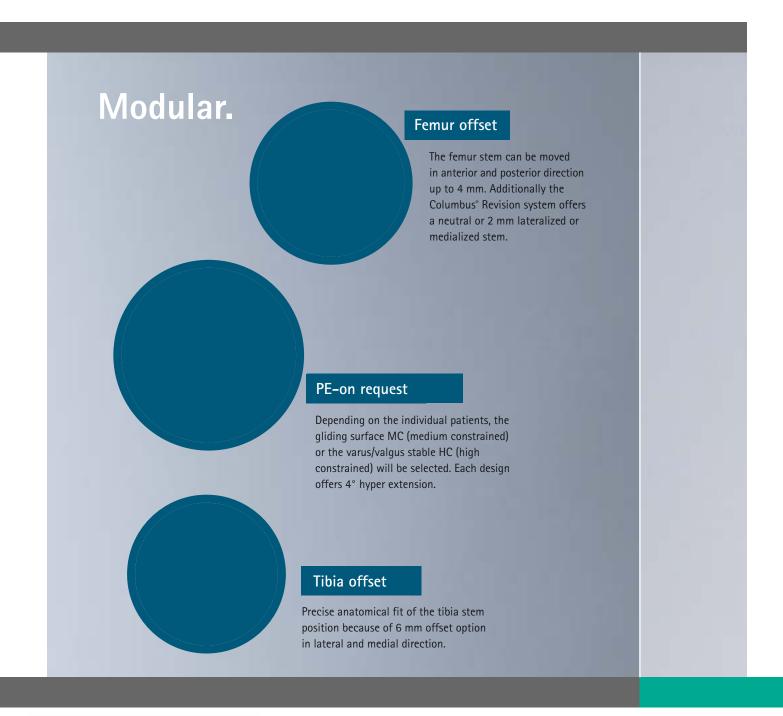
### Tibial technology

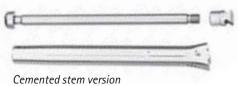
- Tibia offset ML up to +/- 6 mm
- Symmetrical tibia components, 11 sizes
- Tibia hemi spacer 5, 10, 15 mm
- Tibia offset stems

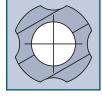
cementless: lengths 92 and 132 mm  $\,$  ø 11, 12, 13, 14, 16, 18 and 20 mm  $\,$ 

cemented: lengths 52 and 92 mm ø 12, 15 and 18 mm

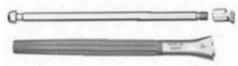
### Columbus® Revision

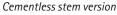


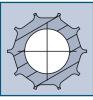




4 longitudinal grooves to avoid the risk of embolism

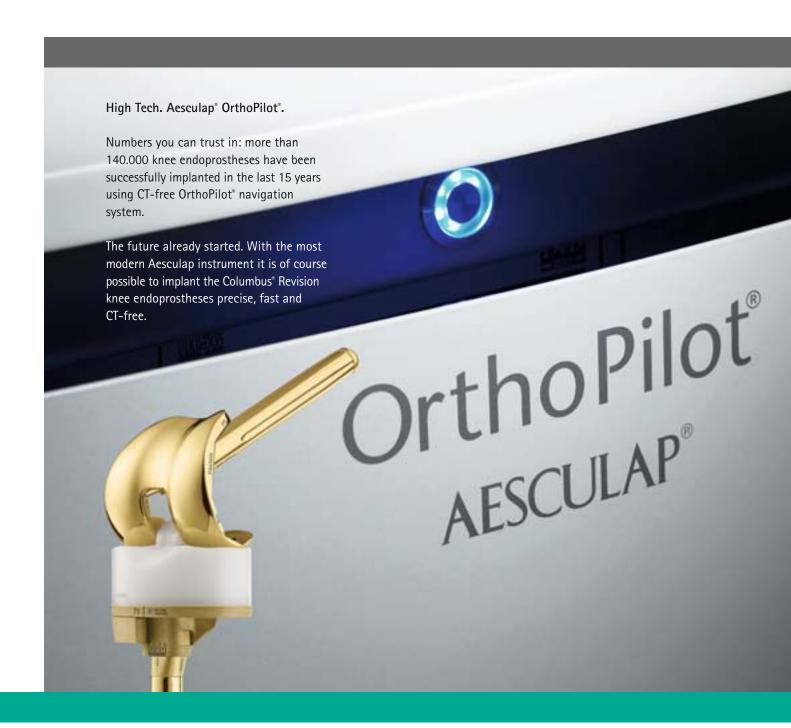






10 longitudinal grooves (Wagner Profil)

## Precise modularity.



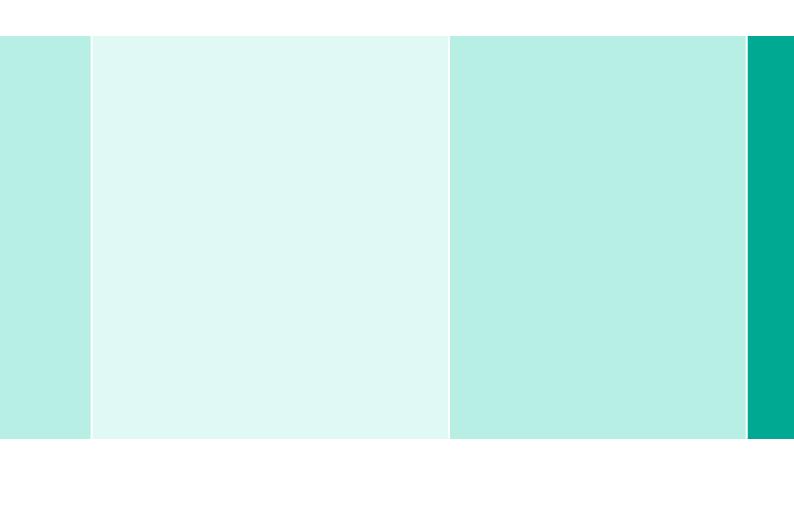
#### Innovative. Advanced Surface.

The top layer is made of Zirconium Nitrid. Because of these ceramic features, the wear is reduced up to 65 %. The AS-coated Columbus\* Revision knee endoprostheses offers a new and proven solution for patients with metal sensitivity e.g. reactions to nickel, chrome and cobalt. Thanks to the multilayer coating the emission of metal ions is reduced and with no risk of mechanical ablation.



impingement, the anterior area of the Columbus\* Revision gliding surface is tapered with harmonious radius design.

9



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