Aesculap Orthopaedics

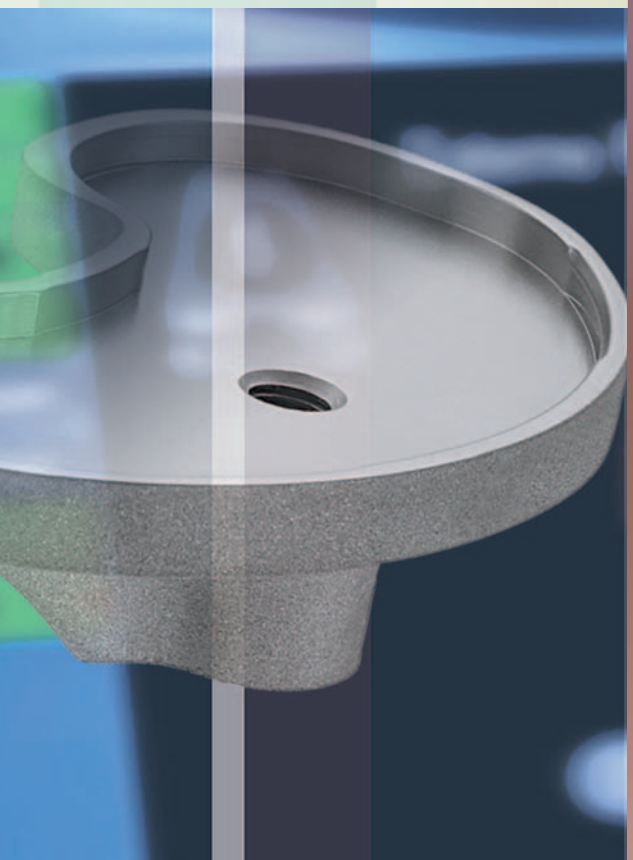
Columbus® MIOS Tibia Plateau

Minimally **I**nvasive
Orthopaedic **S**olutions

Product Information / Surgical Technique Supplement

AESCULAP®
Implant Systems

The minimally invasive tibia plateau, with proven stability



The Columbus® MIOS Tibial Plateau is designed to facilitate implantation through the smaller incisions used for minimally invasive knee replacement surgery. Together with the OrthoPilot® Computer-Assisted Navigation System, the Columbus® MIOS System provides one of the most comprehensive solutions to minimally invasive techniques available today.

The special design of the Columbus® MIOS Tibial Plateau offers the following advantages:

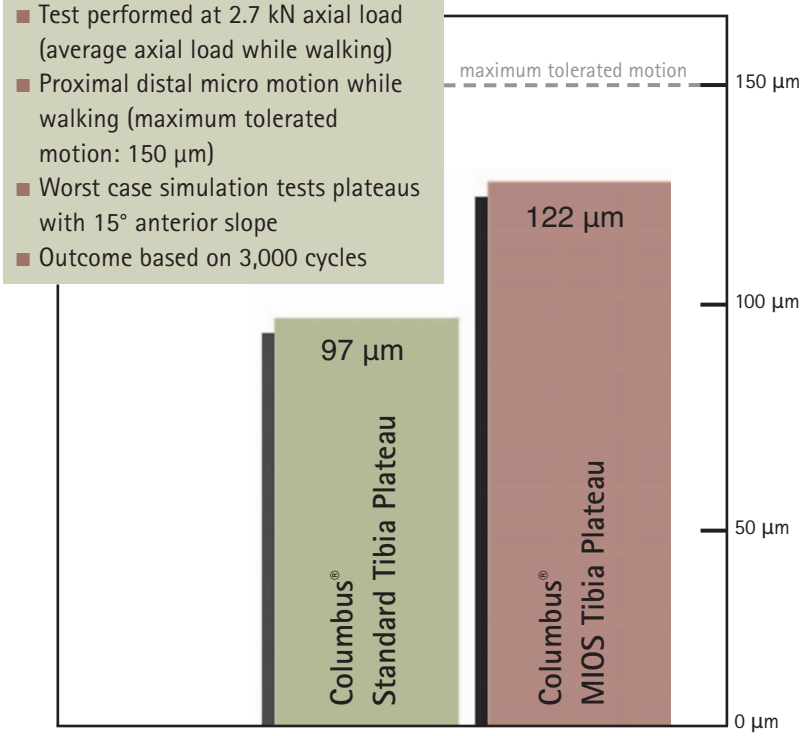
- Easy and safe implantation due to the small and optimized stem
- Minimized potential for malalignment
- Helps avoid damage and trauma to the soft tissue due to overstretching
- Reduction of the risk of femoral condyle damage
- The specially designed MIOS instruments helps lead to a safe procedure for the patient
- MIOS approach preserves bone for the future

The Columbus® MIOS System can lead to an improvement of the functional outcomes (especially in the early postoperative period), reduce the perioperative morbidity, and accelerate postoperative recovery.

Let us break new ground together.

Proximal Distal Micro Motion

- Test performed at 2.7 kN axial load (average axial load while walking)
- Proximal distal micro motion while walking (maximum tolerated motion: 150 µm)
- Worst case simulation tests plateaus with 15° anterior slope
- Outcome based on 3,000 cycles



How it works

- Position the proper trial tibia plateau on the resected tibia in the correct ML and AP position. Insert the pre-fixation peg assembled with the holder (fig. 1).
- Perform trial after removing the holder and pre-fixation guide to establish the natural rotational position under the femoral trial component. Fix the selected position with two short threaded fixation pins (fig. 2).
- Remove the pre-fixation peg. Prepare the proximal tibia with the appropriate size broach (fig. 3).

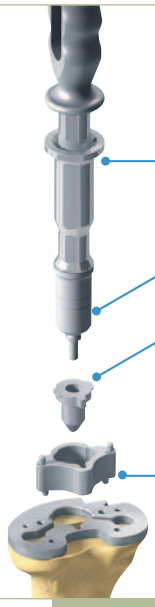


fig. 1

fig. 2

fig. 3

Columbus® MIOS Tibia Plateau CR/PS –ST0255

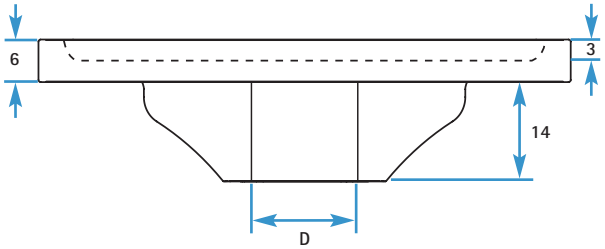
Uncoated

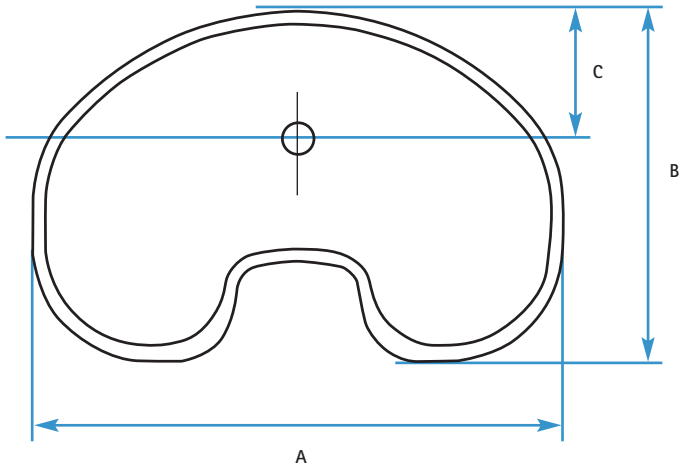
NN370K	Columbus® CR/PS MIOS Tibia Plateau	T0
NN368K	Columbus® CR/PS MIOS Tibia Plateau	T0+
NN371K	Columbus® CR/PS MIOS Tibia Plateau	T1
NN372K	Columbus® CR/PS MIOS Tibia Plateau	T1+
NN373K	Columbus® CR/PS MIOS Tibia Plateau	T2
NN374K	Columbus® CR/PS MIOS Tibia Plateau	T2+
NN375K	Columbus® CR/PS MIOS Tibia Plateau	T3
NN376K	Columbus® CR/PS MIOS Tibia Plateau	T3+
NN377K	Columbus® CR/PS MIOS Tibia Plateau	T4
NN378K	Columbus® CR/PS MIOS Tibia Plateau	T4+
NN379K	Columbus® CR/PS MIOS Tibia Plateau	T5

Overview of the most important dimensions for Columbus® MIOS Tibia Plateau

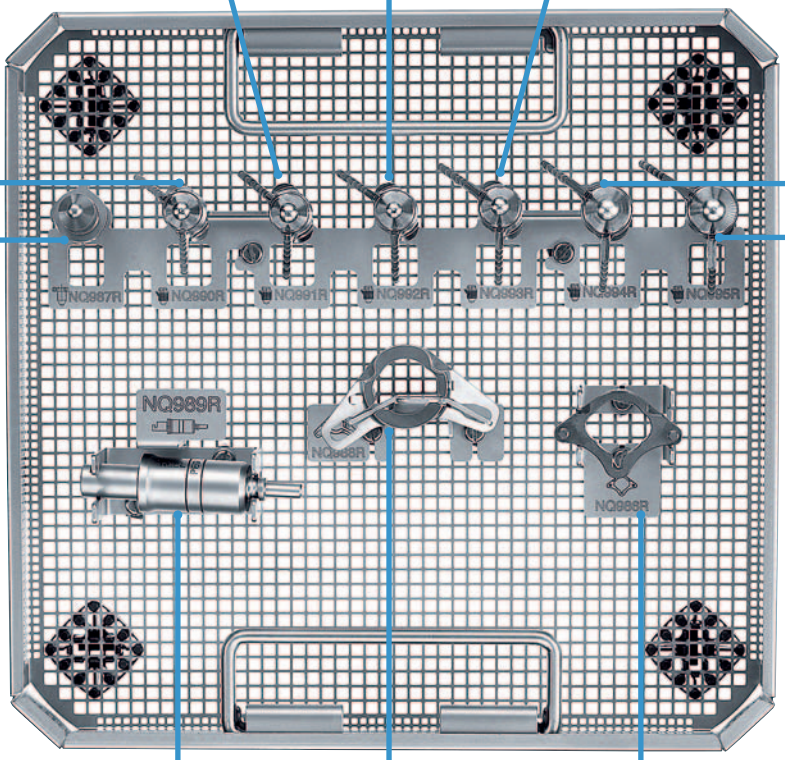
	T0/T0+	T1/T1+	T2/T2+	T3/T3+	T4/T4+	T5
A	62	65	70	75	80	85
B	41/44	43/46	45/49	48/52	51/55	56
C	14/14.5	15/16	16/17.5	17.5/19	19/20.5	20.5
D	12.3	12.3	12.3	12.3	14.3	14.3

measurements in [mm]





Columbus® MIOS Tibia Instrument Set—ST0254



NQ991R
Columbus® MIOS Tibia
Broach T1/1+

NQ992R
Columbus® MIOS Tibia
Broach T2/2+

NQ993R
Columbus® MIOS Tibia
Broach T3/3+

NQ990R
Columbus® MIOS Tibia
Broach T0/0+

NQ987R
Columbus® MIOS Tibia
Pre-fixation peg

NQ994R
Columbus® MIOS Tibia
Broach T4/4+

NQ995R
Columbus® MIOS Tibia
Broach T5

NQ989R
Columbus® MIOS Tibia
Holder

NQ988R
Columbus® MIOS Tibia
Fixation postioning guide

NQ986R
Columbus® MIOS Tibia
Pre-fixation guide

AESCULAP®
Implant Systems

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