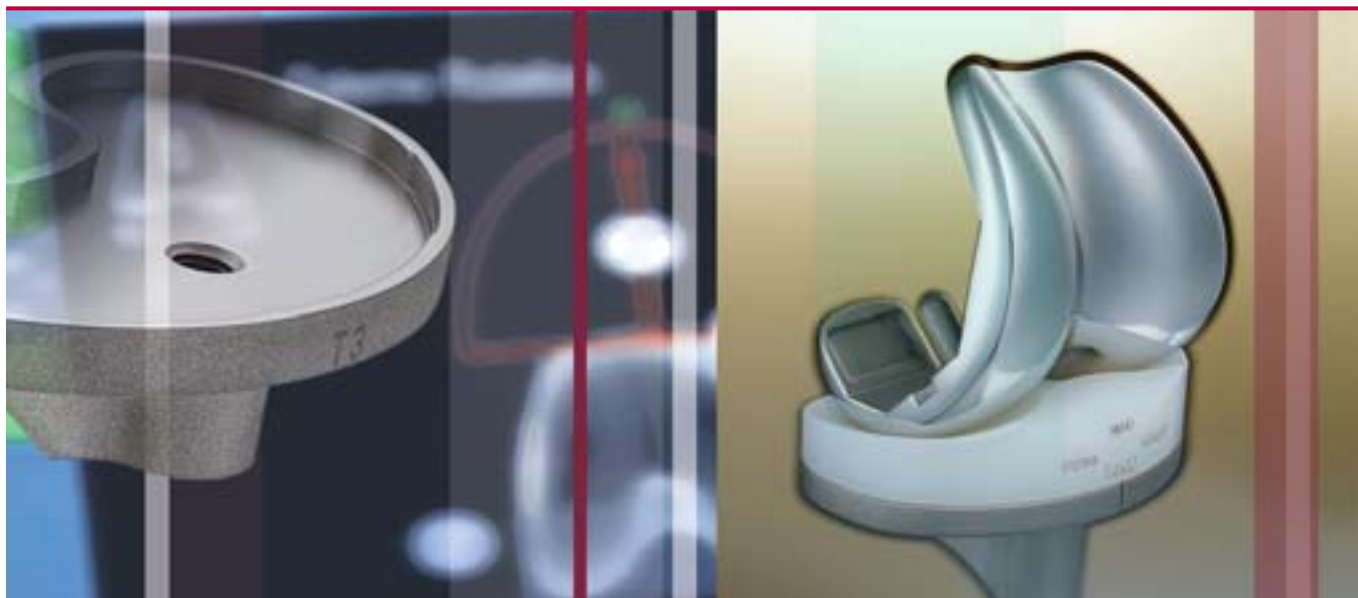


Aesculap Orthopaedics

Columbus[®] MIOS Tibia Plateau



Minimally Invasive
Orthopaedic Solutions



Surgical Technique / Ordering Information

Columbus® MIOS Tibia Plateau

The minimally invasive tibia plateau that fits stable



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 the most comprehensive solution to minimally invasive techniques available today.

These implants with the special design offer the following advantages:

- Easy and safe implantation because of the small and optimized stem
- Minimize potential for malalignment
- Help avoid damage and trauma to the soft tissue due to overstretching
- Reduction of the risk of femur condyle damage
- The special designed MIOS instruments lead to a safe procedure for the patient
- MIOS approach preserves bone for the future

Thus MIOS can lead to an improvement of the functional outcomes, especially in the early post-operative period, reduce the peri-operative morbidity and accelerate post-operative recovery.

The MIOS tibia plateau should be used only under premises which assure an adequate primary and durable fixation of the implant. If this is not possible, e. g. in case of low bone quality because of osteoporosis, defects, etc. it is recommended to implant a standard tibia plateau.

Proximal Distal Micro Motion

- Test performed at 2.7 kN axial load (average axial load at walking in line).
- Proximal distal micro motion at usual walking in line (maximal tolerated motion: 150 µm)
- Worst case simulation test plateaus with 15° anterior Slope
- Outcome on the base of 3000 cycles

Columbus® MIOS Tibia Plateau CR/PS Cruciate retaining/Posterior stabilised

cemented

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



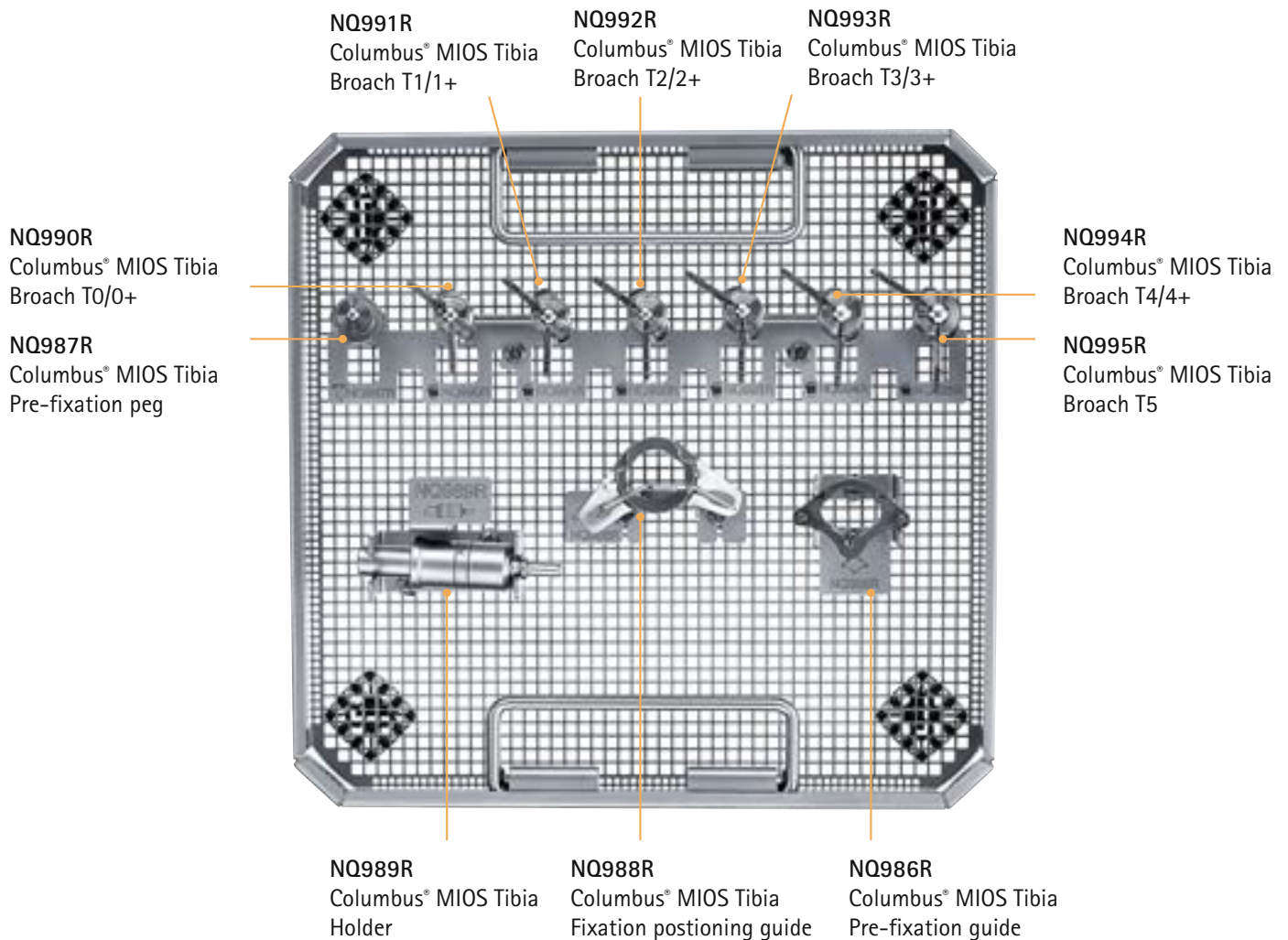
cementless

NN380K	Columbus® CR/PS MIOS Tibia Plateau T0
NN369K	Columbus® CR/PS MIOS Tibia Plateau T0+
NN381K	Columbus® CR/PS MIOS Tibia Plateau T1
NN382K	Columbus® CR/PS MIOS Tibia Plateau T1+
NN383K	Columbus® CR/PS MIOS Tibia Plateau T2
NN384K	Columbus® CR/PS MIOS Tibia Plateau T2+
NN385K	Columbus® CR/PS MIOS Tibia Plateau T3
NN386K	Columbus® CR/PS MIOS Tibia Plateau T3+
NN387K	Columbus® CR/PS MIOS Tibia Plateau T4
NN388K	Columbus® CR/PS MIOS Tibia Plateau T4+
NN389K	Columbus® CR/PS MIOS Tibia Plateau T5





Columbus® MIOS Complementation Set NQ984



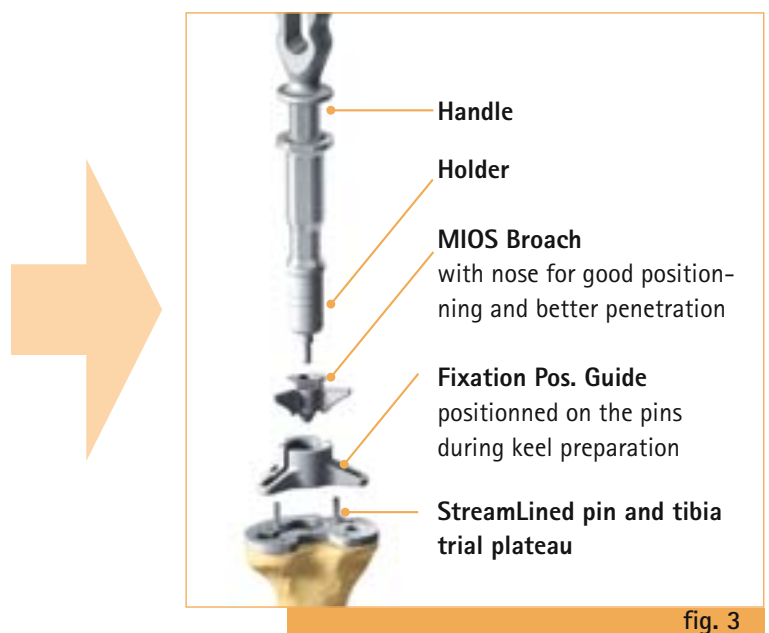
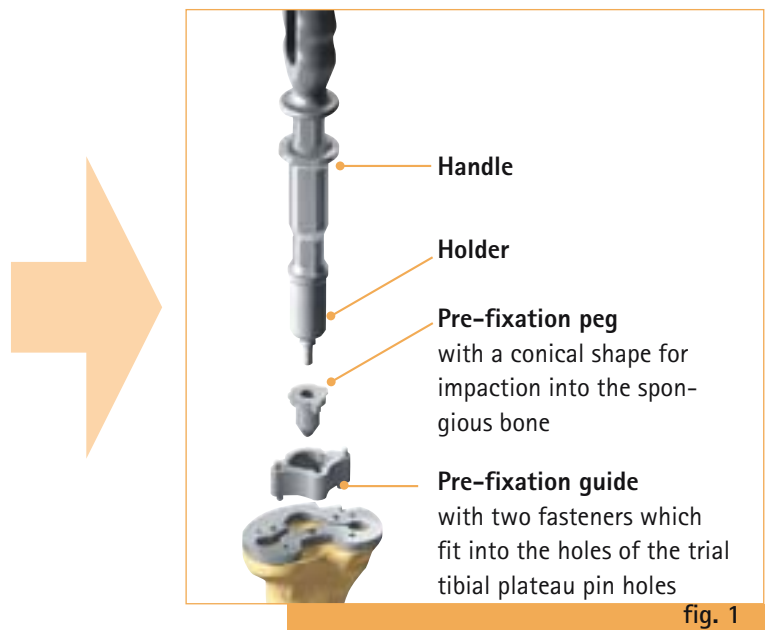
MIOS Instruments Set NQ984 content

NQ985R	Columbus® MIOS Tray Tibia (Storage)	
NQ986R	Columbus® MIOS Tibia Pre-fixation guide	
NQ987R	Columbus® MIOS Tibia Pre-fixation peg	
NQ988R	Columbus® MIOS Tibia Fix. posit. guide	
NQ989R	Columbus® MIOS Tibia Holder	
NQ990R	Columbus® MIOS Tibia Broach	T0/0+
NQ991R	Columbus® MIOS Tibia Broach	T1/1+
NQ992R	Columbus® MIOS Tibia Broach	T2/2+
NQ993R	Columbus® MIOS Tibia Broach	T3/3+
NQ994R	Columbus® MIOS Tibia Broach	T4/4+
NQ995R	Columbus® MIOS Tibia Broach	T5

Surgical Technique

How it works

- Position the proper trial tibia plateau on the resected tibia in correct ML and AP position. Insert pre-fixation peg assembled with holder (fig. 1).
- Perform trial after removing of 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).





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