



 **smith&nephew**  
**RT-PLUS<sup>®</sup>**  
**MODULAR**  
Rotating Hinged Knee

Product Information



PLUS SOLUTION  
KNEE FAMILY

# Innovative solution for active patients

High patient satisfaction due to regaining of an almost unrestricted quality of living

## Proven

Based on experience with the RT-PLUS<sup>°</sup> System (In use since 1996)

## Anatomical

Asymmetrical femoral component which corresponds to the TC-PLUS<sup>°</sup> knee system

## Compatible

Bone resection is compatible with the primary prosthesis TC-PLUS

## Bone - saving

Narrow femoral box (comparable to the PS component) enables minimal bone resection, which reduces the risk of femoral condylar fracture

## Flexible

Modular tibial inserts, for individual intra-operative adjustment

## Kinematic

High range of motion with 130° flexion for the restoration of the physiological knee movement

## Stable

The 40 mm rotation peg provides security against luxation and enables stable distraction

## Combination

The implant is available in five sizes. Each size can be combined with the next larger or smaller size (except for the smallest size)

## Instruments

Practical and well-sorted – in the new EasyTray<sup>°</sup> System. Tried and tested instruments to ensure a secure implantation



### Patellar groove

The patellar groove features an anatomical slope of 6°, enabling optimum patellar tracking and strain relief for the knee extensor apparatus.



### Rotation peg

The 40 mm rotation peg enables a stable distraction up to 20 mm, thus providing excellent protection against dislocation and ensuring smooth coupling characteristics of the components.

The special condyle design causes a physiological roll-back of 9 mm, which improves the flexion capacity of the joint. Furthermore, the rotation peg enables physiological internal and external rotation of 10° from 15° flexion.



### Tibial insert

The special design of the securely anchored tibial insert enables the individual adaptation of the joint to three different heights and easy coupling. The patented method requires only minimum distraction of the knee joint.



### Stem connection

Identical stem connections of the femoral and tibial components enable the combination with all stems of the system range.



**5 Stems**  
 The cemented or non-cemented stems ensure stable fixation in the tibial or femoral intramedullary canal.

**6 Femoral box**  
 The narrow femoral box (only 25 mm) merely requires minimum bone resection, thereby reducing the risk of condylar fracture. In terms of the width, the system is comparable to a posterior stabilised implant.

**7 Joint**  
 The joint (axis and box) is fully lined with polyethylene and enables a large contact area and minimum material strain.

**8 Augmentation blocks**  
 The use of 5 mm or 10 mm tibial blocks and distal blocks and/or posterior femoral blocks compensates major bone defects. The blocks are screwed to the component and cemented to the bone.



**Manufacturer**

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For further information please  
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