

BIOTECH HF P/S

High Flexion Posterior Stabilised Knee



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BIOTECH

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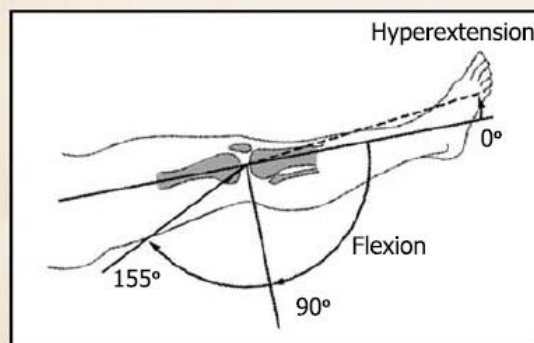
"Movement is Life"

BIOTECH HF P/S – High Flexion Posterior Stabilised Knee

Restricted flexion of the knee is still a common complication in patients after total knee arthroplasty. For patients, who desire to keep their postoperative ability to perform activities that require full flexional movement range of their knee, the **BIOTECH HF P/S – High Flexion Posterior Stabilised Knee** offers an optimal solution.

At deep flexion angles, the contact areas inside the knee decrease significantly, while the contact pressure increases.

With the ideal length and design of its posterior femoral condyles, the new special design of the **HF P/S** femoral component greatly improves the contact mechanics of the femorotibial articulating interfaces, providing the largest contact area and the lowest pressure, making it possible to **safely attain a high range of flexional movements, even beyond 156°**.



During flexion, a compressive femorotibial force is generated due to the interaction between the soft tissues and the prosthesis geometry.

While implants without posterior stabilization show a significant increase in this compressive force after a flexion of 90 degrees, the **HF P/S** prosthesis maintains a low force throughout the range of motion.

Therefore the posterior-stabilized design of the **HF P/S** offers a real advantage in reducing soft tissue tension during extreme flexion.

The range of motion after a total knee arthroplasty can be supported by the prosthesis design, however, other important factors, such as **preoperative range of motion, knee joint kinematics, restrictions by soft tissue, and the implantation technique** all play also a very significant role in the postoperative knee function.

The patient's preoperative range of motion is the biggest indicator of the postoperative range of motion. To achieve the most optimal conditions for a safe high flexion postoperatively, the surgeon should also consider a few special operational techniques steps. (see: HF P/S operation manual).

The **HF P/S** femoral component is fully compatible with the Tibial trays and P/S tibial inserts range of the **Biotech TP Total Knee** and **Biotech FUTURE Modular Total Knee** systems, as well as with the components of the **Biotech TRK Revision Knee** System.

HF P/S Cemented femoral component CoCr DIN EN ISO 5832-4

Left

XXS *	057-1312-0558
XS	057-1312-1562
S	057-1312-2566
M	057-1312-3570
L	057-1312-4574
XL	057-1312-5578
XXL *	057-1312-6582

Right

XXS *	057-1311-0558
XS	057-1311-1562
S	057-1311-2566
M	057-1311-3570
L	057-1311-4574
XL	057-1311-5578
XXL *	057-1311-6582

* - optional




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