ORIGIN®
Custom knee implant

symbios
custom-made for you
live your life to the fullest
Symbios are the leading opinion in the design and manufacture of Custom implants with an experience spanning 40 years and some 30,000 Custom Hip implantations throughout Europe.

Symbios now bring this vast wealth of expertise to the forefront of their commercial activities to provide patients with Custom Knee implants designed, engineered and manufactured in Yverdon les Bains, Switzerland. Nestling beneath the spectacular backdrop of the Jura mountains, this region is renowned for its fine engineering with a pedigree born out of the Swiss watch manufacturing industry.

Specialists in Hip and Knee Prostheses

Symbios Orthopaedics specialise in the design, manufacture and marketing of hip and knee implant systems using our cutting edge 3D pre-operative planning software.
Active patients who are keen to quickly return to outdoor activities would benefit significantly from Total Knee Replacement with Patient Specific instrumentation and an Origin® Custom Implant. If you are interested in exploring this option, please talk to your Consultant Orthopaedic Surgeon who will be pleased to advise you.
Total knee replacement (TKR) involves replacing a damaged, worn or diseased knee with an artificial joint.

**ORIGIN® Custom prosthesis with KNEE-PLAN® technology**

Symbios, a Swiss orthopaedic implant manufacturer, has developed a proprietary software system called KNEE-PLAN®.

This technology uses CT scan images of your knee to create a 3D computer reconstruction. Your journey to receiving a Custom knee implant starts with a CT scan.

The images received from a CT scan give us, Symbios, the information necessary to build a very detailed 3D simulation of your knee, modelled to determine your native anatomy (what you were born with) and its bony contours. From this information, a Custom or bespoke prosthesis (the brand name being ORIGIN®) is designed.

The custom prosthesis is exactly the same shape as your native knee and is optimally sized and contoured to create a prosthesis that feels as natural as it possibly can.
Following the design, 3D-printed customized surgical guides are manufactured. These assist the surgeon to accurately position the implants intra-operatively.

This process is specific to each and every patient - after all, we are not all built the same.

We even put your own name and unique CONNECT identification number and barcode on the outside of the sterile wrapped box.

This whole process will give your surgeon the best possible assistance to optimise the outcomes of your Total Knee Replacement.

Delivering spectacularly good results for patients

The NJR reports a lower revision rate in 576 patients who received a Custom Knee Implant at 4-years. The NJR results for both Custom Hip implant and Custom Knee implant are uncannily similar. Symbios believe that both HIP-PLAN® and KNEE-PLAN® proprietary software is a technology that is easily transposed to produce better outcomes for patients.
Why a Custom Implant (prosthesis)?

Total Knee Replacement (TKR) has become the standard treatment in severe degenerative joint disease of the knee. It is a reliable procedure with some 77,000 TKR’s undertaken each year in the UK using ‘standard’ implants. More recently, irrespective of the mechanical success and the longevity of the implant as reported by our UK’s National Joint Registry, the emphasis has been on patient recorded satisfaction and functional outcomes. The ORIGIN® Custom implant was developed by Symbios to address patient dissatisfaction following Total Knee Replacement using ‘standard’ implants, where dissatisfaction can be as high as 20%.

We believe this is unacceptable in this day and age, and with sophisticated anatomic modelling and KNEE-PLAN® design software at our fingertips, we believe we can significantly improve patient outcomes by offering a Custom implant.

We use the best available materials in our Hip and Knee implants which reduces wear and maximises the longevity of that new joint.
Please read this section carefully

‘Beyond Compliance’ is a regulatory framework established by the Association of British Healthcare Industries (ABHI), the British Orthopaedic Association (BOA) and the Medicines & Healthcare products Regulatory Agency (MHRA), and is run by the National Joint Registry (NJR).

Based upon the performance data from clinical publications and total knee replacement using the ORIGIN® prosthesis carried out across Europe, a pre-entry A* ODEP (Orthopaedic Data Evaluation Panel) rating was given to the ORIGIN® prosthesis to satisfy the conditions for use in a controlled clinical setting. You can find out more about ODEP on their website: www.odep.org.uk

Your surgeon wishes to take advantage of this technology to provide better functional outcomes for his patients. The results of your operation will be recorded on the National Joint Registry database, and you will also be asked to sign a Beyond Compliance patient consent form. This gives permission to the National Joint Registry to access your clinical data and use it to closely monitor your progress following surgery.