OssKin

Provoke

The world's first ligament knee brace to reproduce the natural movement of the knee

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FEATURES & BENEFITS

REPLICATES THE NATURAL MOVEMENT OF THE KNEE

Our patented Asymmotion™ helical hinge system replicates the knee's normal 3D kinematics, ensuring natural internal and external rotation, abduction, and adduction as well as anteroposterior and vertical displacements of the knee. The smooth, fully fluid and natural motion helps reduce pain in other joints as well.

THE WORLD'S LIGHTEST LIGAMENT KNEE BRACE

Weighs 50% less than other ligament braces.

PERFECT FIT ON ALL MORPHOLOGIES

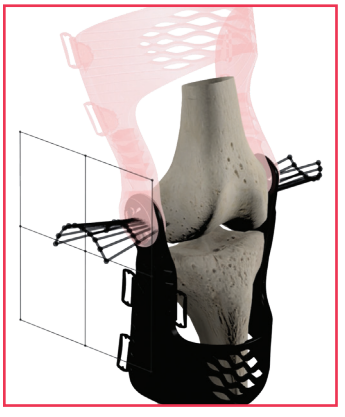
Each leg gets its own unique brace thanks to our scan-to-print design using digital modeling and additive manufacturing.

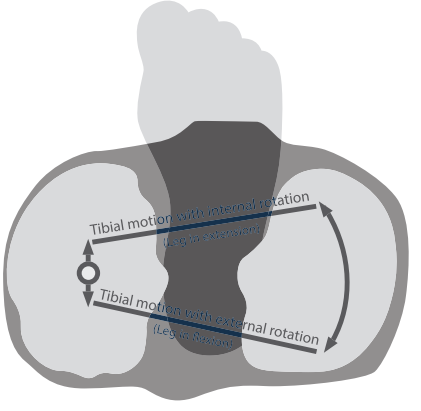
NO MIGRATION

Superior fit and precision leg-motion tracking ensure added hold that helps eliminate migration.

ASYMMOTION™ HINGE SYSTEM

The knee's "screw-home" mechanism is a result of asymmetry of the medial and lateral condyle motion. As a result of our unique asymmetrical hinge system, PROVOKE™ is the only knee brace that perfectly mimics this movement on both sides, preventing the ankle, hip and other joints from compensating. The result: unbeatable comfort.





ADVANCED 3D PRINTING

OSSKIN™'s additive manufacturing process was created by the aerospace industry. We use a laser to fuse layers of polyamide powder, producing a dense, rigid material. This super-resilient and abrasion-resistant material is also used in automotive airbags, rock-climbing equipment and military-grade protective glasses.

DonJoy OA Nano (Claims as the world's lightest knee brace)

OSSKIN™ PROVOKE™

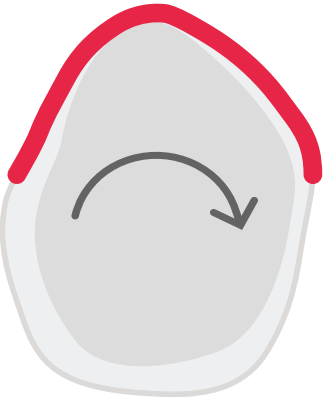
Average top 5 selling OA hinged knee braces

NON-HINDERING PROTECTION OF THE KNEE STRUCTURE

TRANSVERSE PLANE

Provoke allows the natural axial rotation of the knee thanks to the Asymmotion Hinge System, however protects and limits it from excessively rotating.

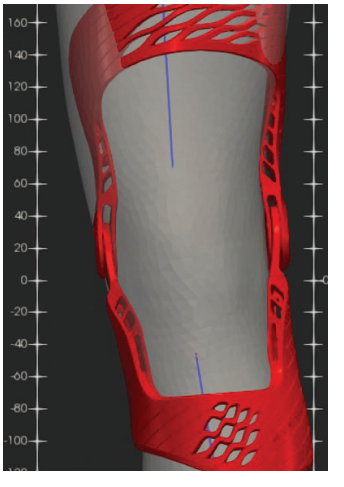
With 3D modelization and Provoke's anterior tibial cuff design, the Provoke can form the triangular anterior shape of the tibialis, thus getting a better grasp and control of the tibia.



FRONTAL PLANE

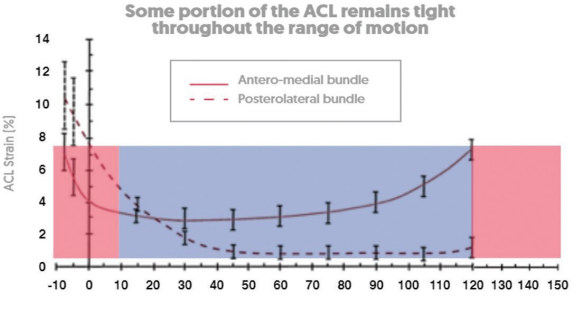
By applying compression during 3D modelization, the perfect fit of the brace eliminates all gaps between the leg and the brace, thus ensuring valgum loads are being transferred to the reinforces uprights of the Provoke.

This results in an instanteneous resistance at inital moment of valgus load.



SAGITTAL PLANE

The Asymmotion™ has a ROM 10 and 120 degrees, thus allowing users to move with natural full range of motion, yet keeping their knee out of the at-risk position. This lessens the chance of injury.



SCAN-TO-PRINT SOLUTION

01 → 02 → 03 → 04

SCANNING

Healthcare professional makes an assessment, scans the patient's lower limb and sends files to OSSKIN™.

DIGITAL MODELING

A qualified technician uses OSSKIN™'s proprietary technology and works with a 3D model to create a fully customized knee orthosis that corrects leg and thigh alignment.

ADDITIVE MANUFACTURING

A process known as additive manufacturing is used in the 3D printing of each personalized frame.

OPTIMIZED OA KNEE BRACE

Each knee orthosis is assembled and shipped to the patient's healthcare professional for fitting and delivery.

PROVOKE™ BRACE INFORMATION

PATIENTS

Active patients and athletes

ACTIVITIES

Non-Contact Sports:
(ie. Soccer, Volleyball, Ski, Jogging, Surfing, etc.)

INDICATIONS

Torn ACL, MCL, LCL
Torn meniscus
Knee Instability

CONTRA-INDICATIONS

Any contact sports:
(ie. Football, Competitive Hockey, Lacrosse, Rugby, etc.)

COLORS

TIBIAL SECTION (BOTTOM HALF)

FEMORAL SECTION (TOP HALF)

STRAPS AND PADDING

ADDITIONAL ADJUSTABLE STRAPS

Tibial anterior
Tibial posterior

EXTRA PADDING

Supra condyle
Lateral condyle
Medial condyle

WARRANTIES

Osskin warrants the frame components to be free of defects in materials and workmanship for 3 years of the original patient. Straps, liners/covers, pads, pins and other soft components shall be warranted free from defects in materials and workmanship for 6 months.

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