



MATCHING
**YOUR
ELEMENT**



Custom knee brace



Air



The problem and its scale

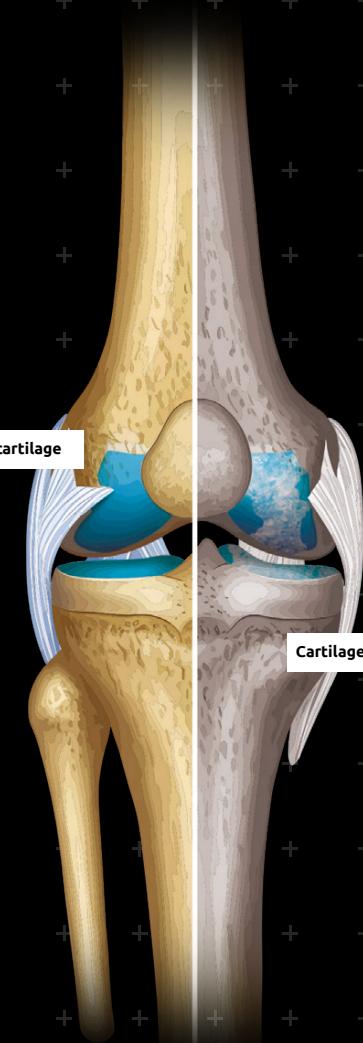
Millions of people around the world experience knee pain every day.

Knee problems such as osteoarthritis (gonarthrosis), valgus deformity or a recent arthroscopy are some of the most common causes of pain and reduced mobility. Their development is associated with such things as past trauma, overworking, defects in the limb's axis, overweight and age.

Did you know?

- 22.9% of people over 40 years of age experience symptoms of gonarthrosis.
- One in three people develop degenerative changes within 10 years after an ACL injury.
- A knee brace can reduce or eliminate the need for pain medication in most patients.
- With a knee brace, approximately 22% of patients are able to stop taking painkillers, while 54% are able to reduce their intake.*

Source: <https://qmedinfo.pl/pl/jointcraft-3d>



Get to know the JointCraft 3D knee brace

JointCraft 3D is a state-of-the-art solution for stabilising the knee joint. It is available in three versions:

3D CUSTOM

Technological progress is opening up new possibilities in medicine and rehabilitation. Specialised software makes it possible to quickly prepare a customised 3D knee brace designed for 3D printing. The use of a mobile scanner enables the precise model of the patient's limb to be sent directly to the design department. This eliminates unnecessary downtime, shortens lead times and reduces the need for follow-up visits.



SERIAL

Available in several standard sizes (S to XL), tailored to the circumference of the lower limb. Enables immediate treatment of patients with a typical body build.

OA KNEE BRACE

The OA brace allows the limb's axis to be corrected based on a leg scan, making it possible to relieve pressure in the medial or lateral compartment of the knee joint.

Size	S	M	L	XL
Thigh circumference (cm)	39 - 47	47 - 53	53 - 59	59 - 67
Knee circumference (cm)	33 - 35	35 - 38	38 - 43	43 - 48
Calf circumference (cm)	30 - 35	35 - 40	40 - 47	47 - 50

Thigh circumference – 15 cm above the center of the patella
 Knee circumference – at the level of the patella center
 Calf circumference – 15 cm below the center of the patella



Features of the knee brace



Carbon fibre-reinforced plastic design



Patented four-axis flat hinge replicates the natural movement of the knee.



Comfortable straps with handles for easier wearing

Possibility of limiting the range of motion in extension (10°, 20°, 30°) and flexion (10°, 20°, 30°, 45°, 60°, 90°) and immobilisation at 0°



Anti-slip padding



Stainless steel components

Applications:



The brace is intended for people with knee joint instability of various aetiologies: it can be used for ACL, PCL, MCL, LCL ligament injuries, and as a form of conservative treatment among patients with osteoarthritis of the knee, and it helps in the rehabilitation process after surgery as well as in the return to full fitness.

Technology and its advantages

Millions of people around the world experience knee pain every day.

JointCraft 3D braces are created from carbon fibre-reinforced plastic using 3D printing technology. Lightweight and precise, the design provides you with solid support when you need it most. The knee brace weighs about 500 g.

Patients participating in the study reported a significant decrease in pain and improvement in joint function.

Custom orthotic solutions in clinical practice

The results of studies involving patients using the JointCraft 3D knee brace have been promising so far. Data collected from 22 patients after six months of follow-up confirms a high level of user satisfaction.

Patients have noted such things as:

- improved stability of the knee joint,
- perfect anatomical fit,
- ease of putting on and taking off the knee brace,
- modern and aesthetic design

Moreover, the use of the knee braces has contributed to an increase in physical activity, which demonstrates not only their functional but also motivational advantages in everyday life. The observed trends provide a solid basis to conclude that the **JointCraft 3D** knee brace is a safe and effective solution that supports the rehabilitation process and improves patients' quality of life.



Earth





Fire



Functionality and customisability

Key functions of the JointCraft 3D knee brace:

- Protects the medial and lateral compartments of the knee joint
- Provides a sense of security during rehabilitation and daily activities
- Enables precise knee brace fitting with the Custom version thanks to 3D scanning
- Offers a wide range of sizes in the serial version

A look to match your element!

Colour:

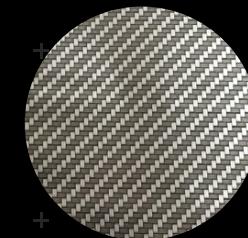
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Matte red

Hydrographics:



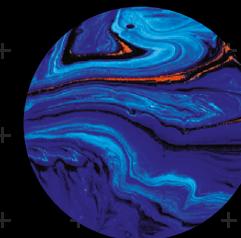
Air



Earth



Fire



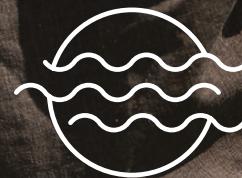
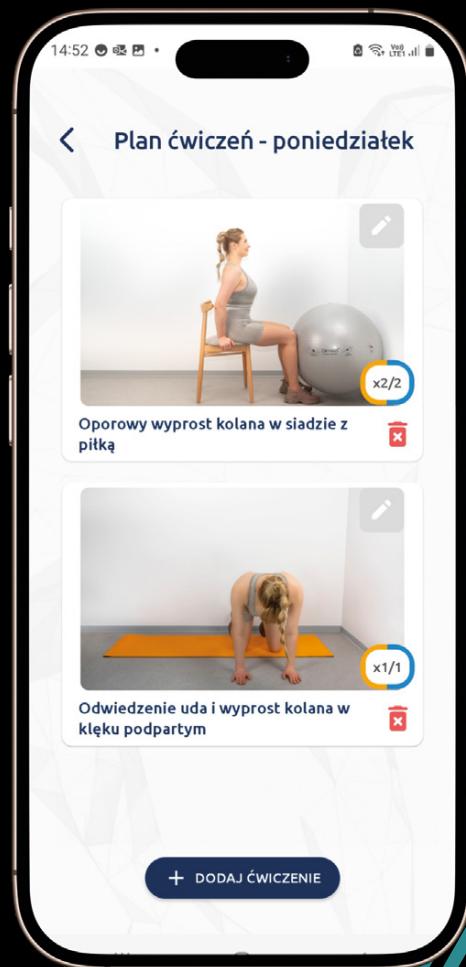
Water

Comprehensive patient support

More than just a product

We combine advanced technology with an individual approach to each patient. To that end, we handle every stage of the process- from measurement to delivery of a ready knee brace.

- Mobile scan — possible even in a small space,
- No disposable moulds mean less production waste,
- Knee brace ready for use in 2-3 weeks
- Qmed Play app with muscle-strengthening exercises National Health Fund reimbursement (in Polish only)



Water





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