

ottobock.

C-Brace.

New features.

New possibilities.





C-Brace.

The next generation of orthotic solutions.

Ottobock has fundamentally changed orthotics with the **C-Brace**. The world's first mechatronic SSCO*, which controls both the stance and swing phase with sensor technology, remains unique to this day.

Its introduction paved the way for a new standard of care for paralysis. Thanks to its microprocessor and hydraulics the **C-Brace** supports the user during the entire gait cycle and adapts to any everyday situation in real time. Flexion under load, negotiating slopes, walking over uneven terrain or going down stairs step over step: all this improved user's quality of life substantially. With the updated **C-Brace**, users benefit from seamless transitions between different gait types, between standing and walking, and even cycling.

The **C-Brace** offers great advantages for technicians and users alike. For one technicians can choose their fabrication method between Prepreg and wet lamination. The individual **C-Brace** settings for the user can be easily configured by the CPO using the **connectgo.pro** app. Thanks to its design, the **C-Brace** can be worn under clothing without attracting attention as well. Users can easily configure the joint settings using the **connectgo** app and read the status directly on the LED display.

* Stance and Swing Phase Control Orthosis

New features. New possibilities.

Intuitive yielding support

Walking on level grounds versus on stairs and ramps has its differences. The **C-Brace** offers special support for descending, now available for the first time through the intuitive yielding support.



Two MyModes

The **C-Brace** now offers two MyModes, including presets for various activities.

Users can select their MyModes using the **connectgo** app.

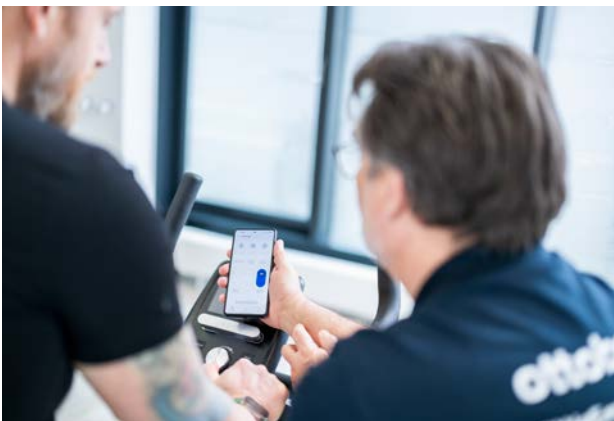


Flexion resistance plus

The early stance phase poses a great challenge to many users. **C-Brace** meets this challenge with its stance phase flexion resistance plus, which offers additional stability during initial ground contact.

Intuitive cycling mode

Cycling has been possible with **C-Brace** for years. Now, users can start and stop cycling and turn to walking whenever they want – thanks to the intuitive cycling mode.



One app for all MPKs and **C-Brace**

connectgo.pro provides a unified app experience for fitting Ottobock products, including **C-Brace**.



Key facts at a glance.



General

- Microprocessor-controlled SSCO* joint that controls the entire gait cycle dynamically and in real-time (100 Hz).
- Flexion during weight-bearing is possible – for example, when sitting down, walking down stairs step-over-step, and walking down inclines.
- **C-Brace** enables fitting for bilaterally affected patients.
- Unilateral KAFO design is available.

Features

- The intuitive cycling mode offers smooth transitions between walking and cycling without any mode changes via **connectgo** app.
- The intuitive yielding support leads to smooth slope and stairs step-over-step descending.
- The intuitive stance function activates automatically when the joint recognizes the intention to stand for a longer period of time.
- The stance phase flexion resistance plus offers additional support during the early stance phase.
- Individual operating modes can be set by the orthotist and selected by the user according to the situation using the **connectgo** app.

Studies

- Enhanced quality of life with the new-found mobility and a greater feeling of safety.
- 78 % less falls and 29 % less fear of falling compared to use with the conventional everyday orthosis (KAFO / SCO).
- More physiological gait patterns help reduce contra-lateral physical strain and resulting conditions.
- Controlled and stable gait characteristics on uneven terrain.

* Stance and swing phase controlled orthosis.

C-Brace.

Precision you can trust.

An orthosis with the **C-Brace** joint consists of custom fabricated thigh, calf and foot components. Accelerations and rotation rates in all movement directions are measured in the joint. This allows the orientation and movement of the joint in space to be calculated in three dimensions. All sensors and the battery are integrated into the joint module.

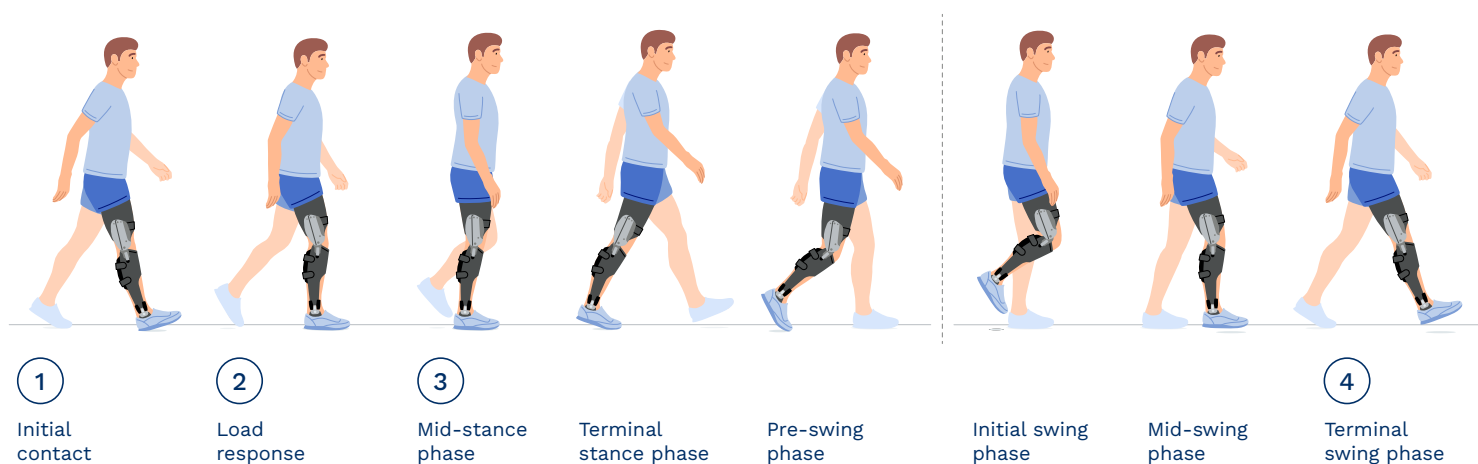
The joint recognizes which phase of the gait cycle the user is in. The hydraulic resistances are regulated accordingly, while flexion and extension are controlled. Thanks to calculations in real time, the **C-Brace** can even optimize the gait pattern in each individual phase. In particular, additional damping support in the early stance phase and during knee flexion provides full control across the entire spectrum of ambulatory movements.





Functional compensation by the C-Brace.

The phases of walking



1. Stance phase flexion resistance

Controlled stance phase resistance supports the knee extensors during heel contact.

2. Stance phase flexion resistance plus

Additional resistance option supports the muscles as needed upon increased load transfer; time limitation for additional stance phase resistance.

3. Stance phase extension resistance

Knee extension resistance in the stance phase for smooth, natural movement of the knee joint.

4. Swing phase flexion angle

Controls the end of swing phase flexion for an optimised gait pattern.

C-Brace.

Seizing new opportunities.

In principle, the **C-Brace** can be considered for all neurological indications of the lower extremities. The leading indications are incomplete paraplegia (lesion between L1 and L5) with very minor or no spasticity as well as post-polio syndrome, the condition following poliomyelitis.

Indications

- Unilateral or bilateral lower limb paresis or flaccid paralysis, e.g. due to post-polio syndrome, traumatic paresis, incomplete paraplegia.
- Physical prerequisites such as muscle status, joint mobility and possible axis deviations are crucial and proper control of the orthosis must be guaranteed.
- The user must fulfil the physical and mental requirements for perceiving optical / acoustic signals and / or mechanical vibrations
- The existing muscle strength of the hip extensors and flexors must permit the controlled swing-through of the limb (compensation using the hip is possible)

Absolute Contraindications

- Flexion contracture in the knee and / or hip joint in excess of 10°
- Knee varus / valgus malposition in excess of 10°
- Severe spasticity
- Frequent spasticity
- Body weight over 125 kg
- Orthoprosthesis

Relative Contraindications

- Uncontrolled moderate spasticity
- Infrequent spasticity
- Leg length discrepancy in excess of 15 cm



C-Brace fabrication

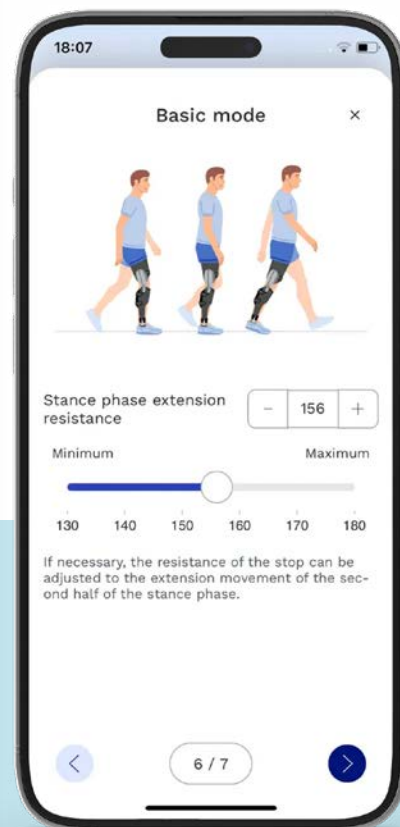
O&P professionals can fabricate **C-Brace** independently. Ottobock provides individual components, tools and technical information. The orthosis is then fabricated on site by the technician using one of two production processes – Prepreg or wet lamination with Orthopox epoxy resin. Practical training materials are offered as add-on to the mandatory certification on the **C-Brace** joint unit and fitting process. Accompanying physiotherapy is part of the integrated fitting process as well.



The tutorials are found on our official YouTube channel: “Ottobock Professionals”, or via the QR code.

C-Brace – easy to adjust

The **connectgo.pro** app makes life easy for you as the O&P professional. Simply configure the optimum settings for the user on a tablet. It is available for Android and iOS.





smart documentation. Useful tools and services.

With **smart documentation**, you can present your treatment results and efficiently justify decisions to the cost bearer.

Benefits at a glance

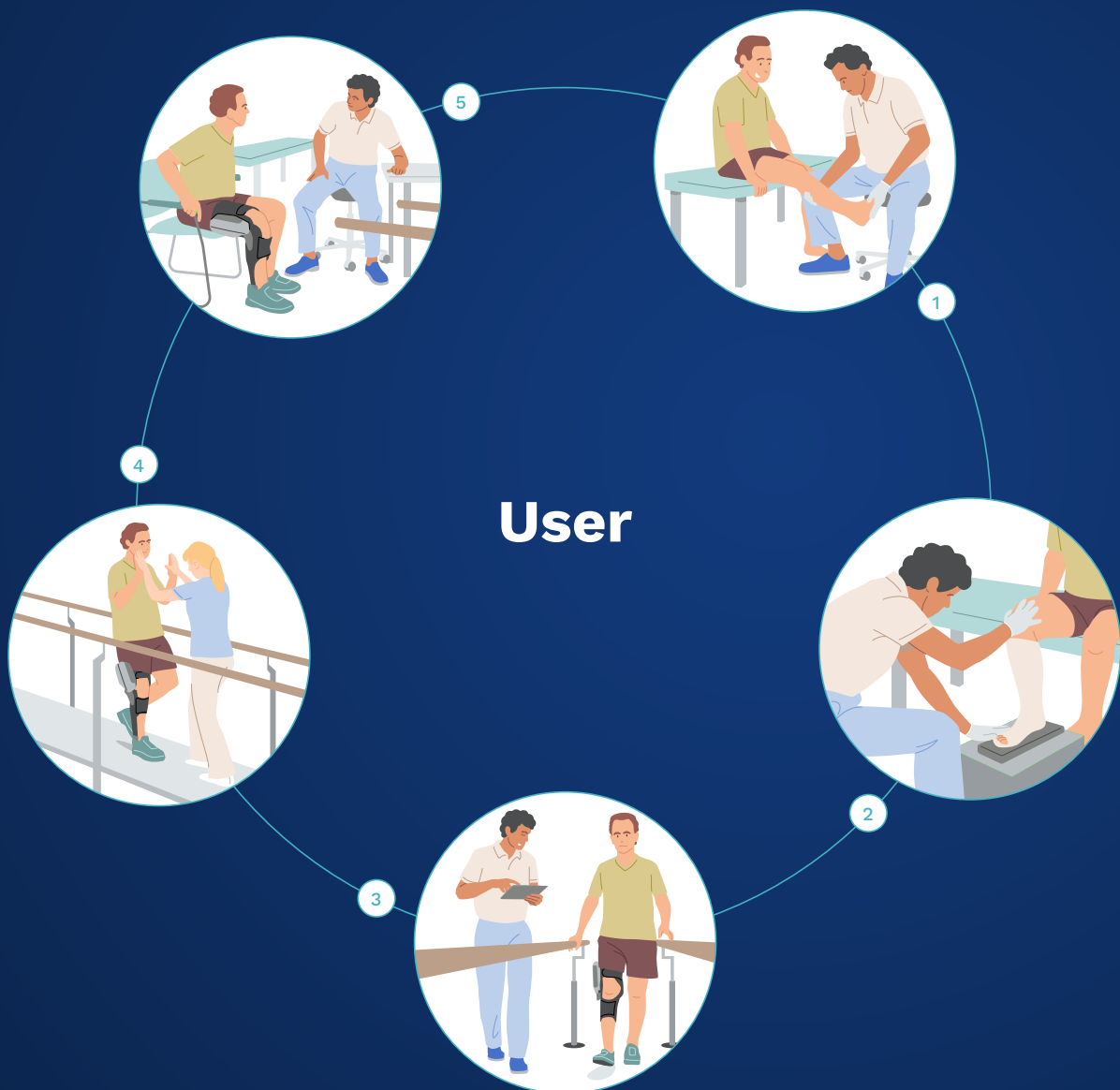
- Efficient generation of reimbursement argumentation with an AI-supported solution
- Visualisation of treatment progress and product benefits through photos and videos
- Saves time during documentation thanks to customisable templates
- Use of innovative video analytics
- Streamline collaboration within your own team



Efficient treatment documentation and reimbursement argumentation.

C-Brace.

Treatment cycle.



1 Examination and fitting recommendation

Before a final recommendation can be made, you review with the user whether the **C-Brace** is the appropriate device. The user wears the dynamic trial orthosis (DTO) for this purpose.

2 Measuring and production

The O&P professional takes the user's measurements, fabricates the plaster negative and positive, and first produces a functional trial orthosis (FTO). This is followed by fabrication of the definitive orthosis using prepreg technology or with Orthopox epoxy resin.

3 Fitting and adjustment

Then comes the trial fitting of the definitive **C-Brace** orthosis. The O&P professional uses the **connectgo.pro** to configure the KAFO according to the user's needs. The O&P professional can activate additional modes, such as the intuitive cycling function and two user-defined modes. You as the therapist should be present during the final fitting and accompany the user's first steps.

4 Gait training and rehabilitation

Training with the **C-Brace** is an important element of the fitting process. The objectives are to teach the user how to use the **C-Brace** orthosis in cooperation with a trained therapist, to build confidence in the **C-Brace** (load transfer) and to practice the functions that are new to the user (expanded ADLs).

5 Quality and continuous control

Regular service inspections by Ottobock. The medical supply company also verifies the fit and settings of the **C-Brace** in the course of the inspection.

From the examination to quality control

Fitting with the **C-Brace** requires several steps. The time required varies depending on the user but usually extends over several weeks. From the initial examination to gait training and finally, regular quality control – a comprehensive, custom fitting is essential to ensure that the user reaps the full benefits of the **C-Brace**. Functional test fittings can be offered on request (requires manufacturing a basic definitive KAFO, equipped with **C-Brace** loaner joint unit).

Recommendation

As part of a **C-Brace** fitting, we recommend close cooperation with a physiotherapist. This enables the user to get the best out of his fitting.



Scan the QR code to find further information in our therapy video tutorials.

Our winning combination – **C-Brace with *Nexgear Tango* ankle.**

The ***Nexgear Tango ankle*** joint optimizes the gait pattern and enables more dynamic walking. It enables a comparatively high energy return at approx. 15° to 20° (without spring pretension), freedom of movement in the ankle.



The Reaction-module controls dorsal and plantar flexion, supports toe-off in the final stance phase and also normalizes knee movement in the stance phase. It can be equipped with strong (blue) or extra strong (yellow) spring. If a higher energy return is required, the ***Nexgear Tango ankle*** joint can be upgraded with an Ultra-module instead of the Reaction-module. The ultra-strong spring (grey) is about twice as strong as the extra-strong yellow spring.

From Q4 / 2026, the ***Nexgear Tango ankle*** joint will be available in a durable version, specifically developed for unilateral use with SSCO joints (variant 17AD300=22-T).

These characteristics enable you as the O&P professional to optimize the fitting with a **C-Brace** for your patient. The **C-Brace** in combination with the ***Nexgear Tango ankle*** joint therefore offers excellent prerequisites for a more dynamic and therefore more efficient gait pattern.

**Dynamic, modular
and powerful.**

Extended fitting varieties.

Released ankle joint combinations

	Unilateral C-Brace ankle joint		Nexgear Tango			Unilateral ankle joint	
							
Article no.	17AO100=22-T		17AD300=16-T	17AD300=20-T	17AD300=22-T	17LA3N=16-T	17LA3N=20-T
Fitting design	unilateral	bilateral	bilateral	bilateral	unilateral	bilateral	bilateral
Max. body weight	110 kg	125 kg	85 kg	110 kg	110 kg	85 kg	110 kg

Released follower joints

	Unilateral adapter plate	Medial follower joint
		
Article no.	17KF300=*	17KF100-2=*
Max. body weight	110 kg	125 kg

Comprehensive advantages.

Worldwide support.



Simple and efficient service.

Discover our After-Sales programs. Ottobock Service goes beyond maintenance and repairs. Our After-Sales programs support you throughout the entire product lifecycle – from fast replacements to global support solutions. Learn more about the services that help you work efficiently, plan reliably, and keep users moving.

Discover our After-Sales Services for *C-Brace*:



Expanded Warranty Coverage.

We know daily use can be tough on orthoses and prostheses, so we're extending our warranty coverage to include a range of common scenarios (e.g. corrosion, mechanical damage).



Global Emergency Support (GES).

With our worldwide warranty, users can rely on support in the event of an emergency – whether they are at home, traveling, or on a business trip.



Global Loaner Pool.

To help customers ensure the best possible mobility outcomes, we offer a comprehensive pool of around 16,000 loaner products to support multiple key steps in our customers' users' care for trials and product service.



#wevegotthis

