C-Brace.
Step into the future.

Ottobock has fundamentally changed orthotics with the *C-Brace*. The world's first mechatronic stance and swing phase control orthosis (SSCO®) system, which controls both the stance and swing phase hydraulically with microprocessor sensor technology.

Key features for users:

- The first of its kind microprocessor-controlled hydraulic stance and swing phase system (SSCO®)
- Entire gait cycle is controlled dynamically and in real-time
- System responds quickly to any situation
- Flexion during weight-bearing is now possible for the first time - for example, when sitting down, walking downstairs, step-over-step, and walking down inclines
- Controlled and stable gait characteristics on uneven terrain
- Individual operating modes can be set by the orthotist and selected by the user according to the situation, e.g. cycling
- More physiologic gait pattern helps reduce contra-lateral physical strain and resulting conditions
- Potential for reducing energy expenditure, especially when compared to locked systems
- Enhanced quality of life with the new-found mobility and a greater feeling of safety
- The Cockpit app allows users to make minor adjustments all from their smart phone or tablet: tailoring joint stiffness, changing modes, adjusting pitch and volume, and turning on/off certain features
- The freeze feature can be turned on by the user to lock the joint at any angle in both the flexion and extension directions

Key features for professionals:

- Low-profile: the *C-Brace* can be worn under clothing
- The *C-Brace* microprocessor sensor technology is more intuitive to use, and the hydraulically controlled motion sequences are more dynamic and sensitive
- Orthotists have the option to fabricate the *C-Brace* themselves using wet lamination
- Easy adjustments with the Setup app
- External mounting makes it easier to switch out the *C-Brace* joint unit

ottobock.

C-Brace.
Walk with confidence.

1. **Integrated Bluetooth® technology**
   Enables intuitive communication with the joint and can be easily deactivated

2. **Multiple activity modes**
   - User defined mode - can be programmed for specific activities
   - Basic mode
   - Training mode

3. **First SSCO® system**
   Controlled knee flexion under weight bearing, makes the *C-Brace* the first of its kind SSCO® system

4. **Mimics movement**
   Mimics eccentric contractions of the quadriceps or hamstrings depending on the user's needs

5. **Provides knee flexion**
   Uses input from user to allow appropriate knee flexion during gait

6. **Knee angle sensor**
   Measures flexion angle and angular velocity

7. **Microprocessor controlled hydraulic joint unit**
   Joint unit analyzes gait 100 times per second, allowing users to feel more mobile and safer than ever

8. **Charging receptacle**
   Easily accessed at the front of the joint

9. **Inertial motion unit (IMU)**
   Gyroscope and accelerometers track spatial positioning and acceleration, enabling control based on motion analysis and additional force determination

10. **Lithium ion battery**
    Should be charged overnight when used on a daily basis

Intuitive

11. Intuitive stance function reduces standing fatigue

Improved gait

12. Reduces sound side overcompensation by improving physiological gait characteristics

Technical data

Max. body weight	275 lbs
Weight	2.3 lbs
Frame material	Aluminum
Hydraulic mounting	Spherical joints
Medial follower	17KF100
Battery	Lithium Ion
Programming	Setup and Cockpit apps

US: **shop.ottobock.us** | P 800 328 4058 | F 800 962 2549
CA: **shop.ottobock.ca** | P 800 665 3327 | F 800 463 3659