

**ottobock.**

# **C-Brace.** Clinically proven.

The C-Brace established the microprocessor KAFO market when it was first released and is the most widely used MP-KAFO device in the market today. The C-Brace is clinically proven to be safer and improve quality of life for users around the globe.

- **169%**  
improvement in rating for individual goals <sup>(2)</sup>
- **Up to 91%**  
reduction in falls <sup>(1, 2)</sup>
- **Up to 59%**  
reduction in fear of falling <sup>(1)</sup>
- **Up to 50%**  
increased quality of life <sup>(1, 2)</sup>
- **Up to 36%**  
increase in fast walking speed <sup>(2)</sup>
- **Up to 25%**  
increase in balance confidence <sup>(2)</sup>
- **Up to 20%**  
improvement in balance <sup>(1)</sup>



*\*All clinical studies for passive MP-KAFOs with PDAC verification for L2006 were conducted with the C-Brace.*

# References.

1. Ruetz A, DiBello T, Toelle C, Hemmen B, Wening J, Weber E, Braatz F, Winkler T, Steinfeldt F, Umari M, Rupp R. A microprocessor stance and swing control orthosis improves balance, risk of falling, mobility, function, and quality of life of individuals dependent on a knee-ankle-foot orthosis for ambulation. *Disability and Rehabilitation*. 2024 Aug 13;46(17):4019-32.
2. Lundstrom RL, Klenow TD, Morris A, Pobatschnig B, Hibler KD, Kannenberg AH. The C-Brace® microprocessor controlled stance and swing orthosis improves safety, mobility, and quality of life at one year: Interim results from a prospective registry. *Journal of Rehabilitation and Assistive Technologies Engineering*. 2024 Aug 9;11:20556683241269539.
3. Brüggjenjürgen B, Eilers L, Seidinger S, Kannenberg A, Stukenborg-Colsman C. Patients' burden using microprocessor-stance-and-swing-control knee-ankle-foot orthoses and outcomes compared to those with prior traditional knee-ankle-foot orthoses. *Can Prosthet Orthot J* 2024;7(1):1. <https://jps.library.utoronto.ca/index.php/cpoj/article/view/42799>
4. Brüggjenjürgen B, Braatz F, Greitemann B, Drewitz H, Ruetz A, Schäfer M, Seifert W, Steinfeldt F, Weichold C, Yao D, Stukenborg-Colsman C. Experts' perceived patient burden and outcomes of knee-ankle-foot orthoses (KAFOs) vs. microprocessor-stance-and-swing-phase-controlled knee-ankle-foot orthoses (MP-SSCOs). *Can Prosthet Orthot J* 2022;5(1):7. <https://jps.library.utoronto.ca/index.php/cpoj/article/view/37795>
5. Deems-Dluhy S, Hoppe-Ludwig S, Mummidiseti CK, Semik P, Heinemann AW, Jayaraman A. Microprocessor controlled knee ankle foot orthosis (KAFO) vs. stance control vs. locked KAFO: a randomized controlled trial. *Arch Phys Med Rehabil* 2021;102:233-244. doi: 10.1016/j.apmr.2020.08.013. Epub 2020 Sep 22. Download link: [https://www.archives-pmr.org/article/S0003-9993\(20\)30940-0/abstract](https://www.archives-pmr.org/article/S0003-9993(20)30940-0/abstract)
6. Hobusch GM, Hasenöhl T, Pieber K, Schmalz T, Dana S, Ambrozy C, Pohlig K, Dietl H, Crevenna R, von Skrbensky G, Hofer C, Auberger R, Windhager R. A novel mechatronic orthosis enables symmetrical gait kinematics in a patient with a femoral nerve palsy – a case study. *Disabil Rehabil Assist Technol* 2018 Feb;13(2):201-205. DOI: 10.1080/17483107.2017.1304584. [https://www.tandfonline.com/doi/10.1080/17483107.2017.1304584?url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org&rfr\\_dat=cr\\_pub%20%20pubmed](https://www.tandfonline.com/doi/10.1080/17483107.2017.1304584?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed)
7. Pröbsting E, Kannenberg A, Zacharias B. Safety and walking ability of KAFO users with the C-Brace® Orthotronic Mobility System, a new microprocessor stance and swing control orthosis. *Prosthet Orthot Int* 2017 Feb;41(1):65-77. Epub 2016 Jul 10. Download link: [https://journals.sagepub.com/doi/full/10.1177/03093646166637954?rfr\\_dat=cr\\_pub++0pubmed&url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org](https://journals.sagepub.com/doi/full/10.1177/03093646166637954?rfr_dat=cr_pub++0pubmed&url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org)
8. Schmalz T, Pröbsting E, Auberger R, Siewert G. A functional comparison of conventional knee-ankle-foot orthoses and a microprocessor-controlled leg orthosis system based on biomechanical parameters. *Prosthet Orthot Int* 2016 Apr;40(2):277-286. doi: 10.1177/0309364614546524. Epub 2014 Sep 23. [https://journals.sagepub.com/doi/10.1177/0309364614546524?url\\_ver=Z39.88-2003&rfr\\_id=ori:rid:crossref.org&rfr\\_dat=cr\\_pub%20%20pubmed](https://journals.sagepub.com/doi/10.1177/0309364614546524?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed)

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