

C-Leg® Technology

Introduced to the world in 1997, the C-Leg® was the first prosthesis system to intelligently control and adapt to an individual's gait. To do this, the C-Leg (and the Compact model) takes advantage of microprocessor-controlled hydraulics, which adapt dynamically to all walking speeds in real time. The revolutionary microprocessor that controls the C-Leg receives feedback from multiple sensors 50 times a second, making adjustments in real time. In addition, the microprocessor can reliably secure the stance phase in both the C-Leg and Compact knees. The result is a system that recognizes which phase of gait the user is in—and reacts accordingly. This keeps your knee stable when you weight it, free-swinging when you step through—and always ready to support you if you stumble.

C-Leg technology offers the advantages of permanent stance phase control, the ability to weight the prosthesis during flexion, dynamic alignment, less energy expenditure while walking, and relief for the sound side and the rest of the body.