

## Microprocessor Knee

Microprocessor controlled knees offer constant adjustment of the prosthetic knee mechanism during the entire gait cycle. Force sensors in the pylon detect loading of the foot and ankle and additional sensors read the precise angle of the knee joint. This data, along with swing speed input, is read 50 times per second by the on-board microprocessor. The result is increased stability, ease of swing, and greater efficiency with every step. As the range of walking speed and activity increases, the knee adapts appropriately, optimizing cadence response for individuals while they progress to higher levels of function.



Photo courtesy of Cascade



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