

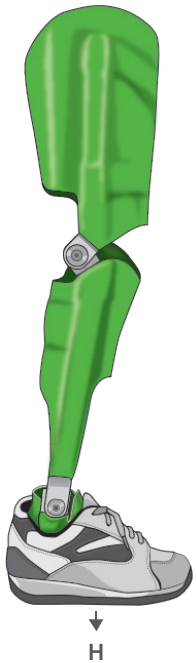
The Crucial Factor

Rotational stability is the most important functional requirement for a walking orthosis with joints, to ensure effective support, guidance, and safety for the wearer. For our orthotic joints, we differentiate between the incorporated segments: short upright anchors for use in prepreg fabrication or similar, or long upright bars which provide the rotational rigidity for laminated orthoses.



Energy Expenditure

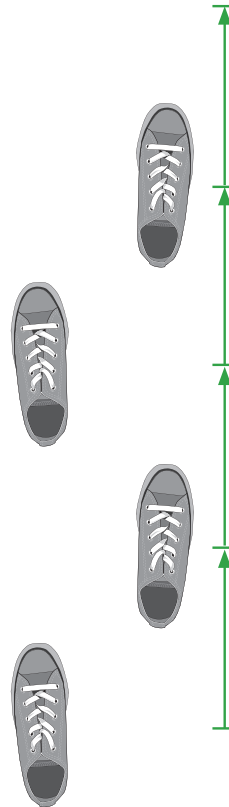
As suppliers of orthotic components, we understand that all products must be as small and light as possible. However, weight is not the only factor in creating the optimal orthosis. To further reduce energy expenditure, other measures are also important. Correct alignment for a relieved stance and proper step initiation, as well as achieving a consistent step length, are crucial. Furthermore, poor fit of the orthosis can lead to unnecessary energy being wasted.



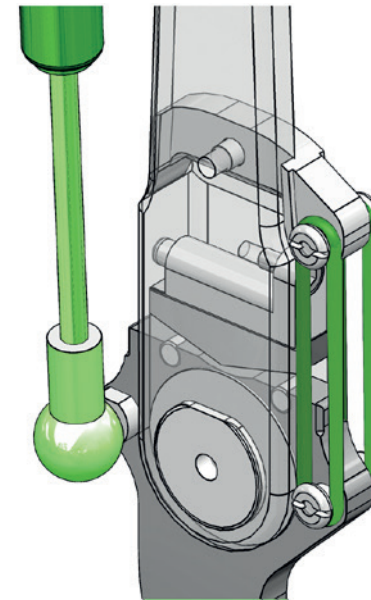
Proper Alignment



3-Point Pressure System/Fit



Symmetrical Step Length



Function

Although a joint with multiple functions will inevitably be larger, it can still lead to a reduction in energy expenditure.



Weight