EliteVT

EliteVT combines an energy-storing-and-return prosthetic foot with a VT adaptor. It uses e-carbon foot springs to efficiently absorb energy during weight bearing and return it during off-loading, in order to aid propulsion. The C-shaped heel spring allows >10mm of vertical compliance for shock-absorption and maximises the energy return. The split toe spring, in combination with the separate heel spring, permits a tripod design for exceptional ground compliance. The VT element adds axial and torsional compliance, interface pressures and shear forces at the socket-residuum interface are reduced, protecting the skin of the residual limb and allowing the user to achieve an enhanced performance without fear of injury.

Clinical Outcomes using e-carbon feet

Much research confirms the substantial equivalency of all energy-storing and return feet, including Blatchford e-carbon feet¹.

With respect to SAFETY

• High mean radius of curvature for Esprit-style e-carbon feet²: “The larger the radius of curvature, the more stable is the foot”

With respect to MOBILITY

• Allow variable running speeds³
• Increased self-selected walking speed⁴
• Elite-style e-carbon feet (L code VL5987) or VT units demonstrate the second highest mobility levels, behind only microprocessor feet⁵

With respect to LOADING SYMMETRY

• Users demonstrate confidence in prosthetic loading during high activity⁶
• Improved prosthetic push-off work compared to SACH feet⁷
• Increased prosthetic positive work done⁴

With respect to USER SATISFACTION

• High degree of user satisfaction, particularly with high activity users⁸

Improvements in Clinical Outcomes using shock-absorbing pylon/torque absorber compared to rigid pylon

Improvement in SAFETY

• Reduced back pain during twisting movements e.g. golf swings⁹

Improvement in MOBILITY

• Reduced compensatory knee flexion at loading response¹⁰
• No reduction in step activity¹¹
• Blatchford torsion adaptors match the able-bodied rotational range¹²
Improvement in **RESIDUAL LIMB HEALTH**
- Reduced loading rate on prosthetic limb\textsuperscript{13}, particularly at fast walking speeds\textsuperscript{14}
- Users feel less pressure on their residual limb\textsuperscript{15}

Improvement in **USER SATISFACTION**
- Patient preference, citing improved comfort, smoothness of gait and easier stairs descent\textsuperscript{13}

**References**


