

BladeXT

BladeXT is an energy-storing-and-return prosthetic foot, which uses a C-shaped e-carbon blade foot spring with a sole plate to efficiently absorb energy during weight bearing and return it during off-loading, in order to aid propulsion. The C-shaped blade maximises the energy return, while the sole plate aids stability and change of direction movements. The sole plate also reduces the possibility of hyperextension injuries and helps wearers to decelerate, especially down slopes when devices without a sole plate would slip. The split-toe design permits medial-lateral slope compliance.

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

References

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