

Xtend® Foot Först H100

Study of Patient Experience

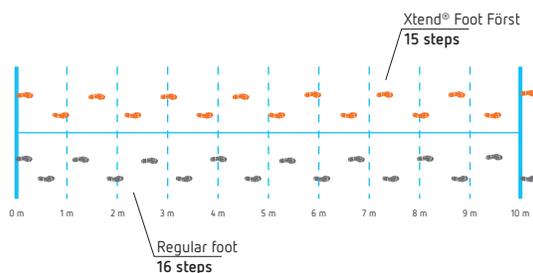
The purpose of the study was to compare the walking ability in amputees supplied with Xtend Foot Först vs. regular carbon fibre foot prostheses. Tests were made for 6 minute walk, Time Up and Go (TUG) and PROM (Plus-M). This study was performed with three trans-tibial and three trans-femoral amputated patients. Patient walked with both the Xtend Foot Först as well with their current foot prostheses (in this case the following feet; Variflex Evi Össur, Aeris Performance, Triton IC60, Element Fillauer, Triton LP, PSA-flexvacum). The study was carried out by Sahlgren-ska University Hospital.

Results

10 meters test

The trial users used fewer steps when walking 10 meters with Xtend Foot Först than with their regular foot prostheses.

10 meters test – Xtend® Foot Först vs regular carbon foot



6 minute walk test

The trial users could walk a longer walking distance in 6 minutes with the Xtend Foot Först than with their regular foot prostheses

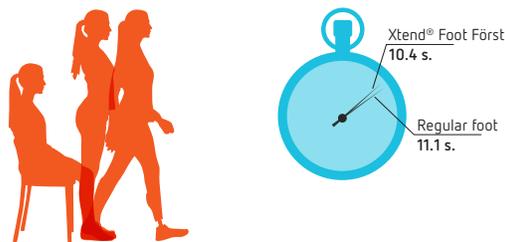
6 minute walk test – Xtend® Foot Först vs regular carbon foot



Time Up and Go test

The trial user had a faster speed from sitting down to getting up walking (TUG: Time Up and Go) with the Xtend Foot Först than with their regular Foot Prostheses.

Time up and go test – Xtend® Foot Först vs regular carbon foot



Some patient comments from the study:

“Possible to walk faster and with more energy”

“Better balance, movement and joint load”

“Softer and smoother”

Take home message

The benefits experienced when walking with the Xtend Foot Först will most probably improve the activity of day-to-day life.

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Comfort & Performance study

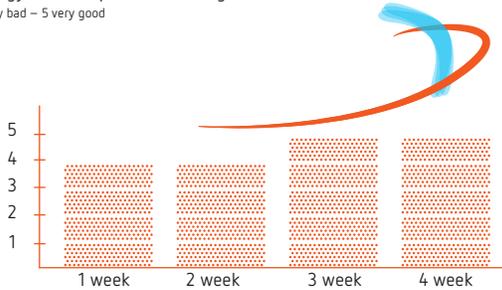
The purpose of the study was to evaluate the comfort and performance of the Xtend Foot Först under a longer period of time and with different types of users. The users were recruited based on different types of indications, both in age and types of amputation level. The users were in weight class P4, i.e. 61 to 80 kilograms, The users included in the study were from both Norway and Sweden. Each user signed a testing-contract but received no gratification

Results

Energy return during walking

The energy-return was highly ranked and the rating increased as the users were getting more and more confident with the Xtend Foot Först

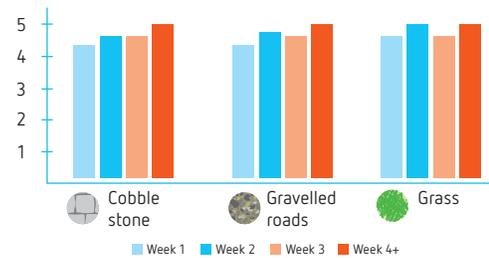
Energy return experience ranking – Xtend® Foot Först
1 very bad – 5 very good



Ranking different surfaces

The ranking shows clear progression and good results on uneven grounds where a higher flexibility in the prosthetic foot is required.

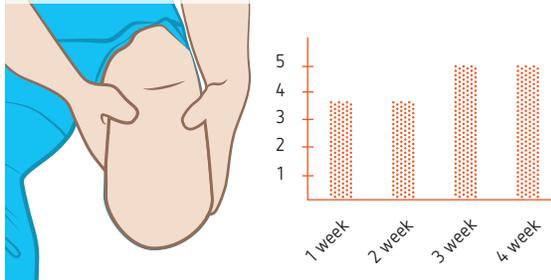
Ranking different surfaces – Xtend® Foot Först
1 very bad – 5 very good



Evaluation of the experienced feeling in the residual limb

An improvement in the limb-connection point was also experienced by the user and it was a clear improvement after two weeks as the patient got used to walking with the Xtend Foot Först

Limb sensory feeling – Xtend® Foot Först
1 very bad – 5 very good



Conclusions

The results confirms positive results of the clinical evaluation study and validates that the Xtend Foot Först provides a more flexible foot and is suitable for walking on uneven surfaces, especially outdoors. The result seems consistent throughout the test period.

The conclusion is that the Xtend Foot Först performs as it was designed to, especially in regards to flexibility and walking on uneven surfaces.