Xtend® Connect

User Need Studies

As our innovations always originate from true end-user needs, we rely on research and data as a basis of our development of Xtend Connect.

Consider these findings from two studies that examine the obstacles amputees are facing in their day-to-day life and how some of those can be navigated more easily by using a quick-change adapter.
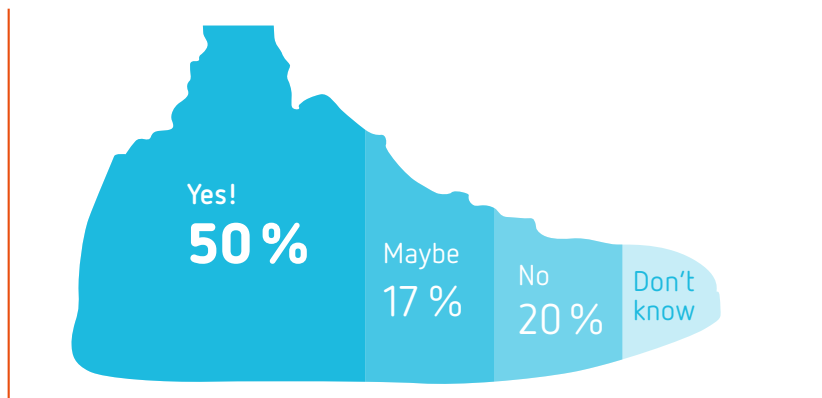
Study 1 – 41 respondents

How to make life easier for prosthetic users by enabling change of prosthetic components.
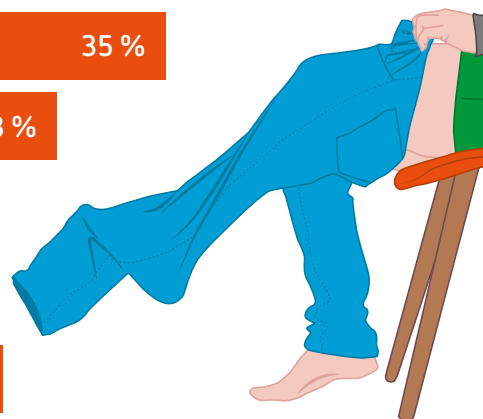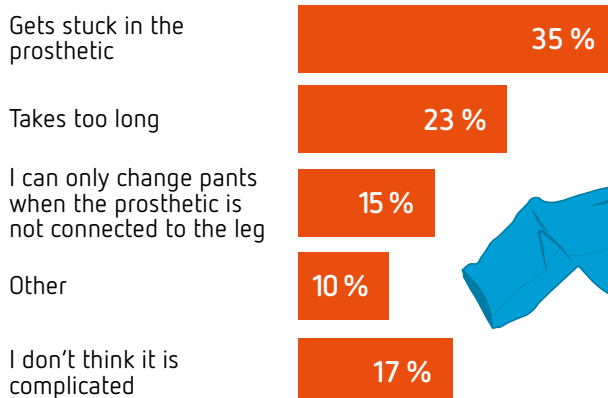
The purpose of this study was to examine how to improve life for those living with limb-loss by facilitating, simplifying and reducing the time needed to connect/disconnect prosthetic feet.

To understand more about the demand of the market and user needs a survey was conducted with 41 amputated respondents that were prosthetic users.

Would you change shoes more often if it was easier?

Yes!
50 %

Maybe
17 %

No
20 %

Don't know

Why is it complicated to change pants?

Gets stuck in the prosthetic	35 %
Takes too long	23 %
I can only change pants when the prosthetic is not connected to the leg	15 %
Other	10 %
I don't think it is complicated	17 %

Please Turn Over

Study 2 – 47 respondents

Understanding the demand of a quick coupler for prosthetic systems.

The purpose of the study was to bring forward a product model that gives the prosthetic user the possibility to change components in a prosthetic system depending on activity.

To understand more about the demand of the market and user needs a survey was conducted with 47 amputated respondents that were prosthetic users of varying age, weight, height, degree of amputation and activity level.

Some results of this survey on user needs.

It would be easier if it was possible to change foot/knee easily with pants on

Agree	48 %
Partly agree	24 %
Do not care	20 %
Partly disagree	6 %
Disagree	2 %
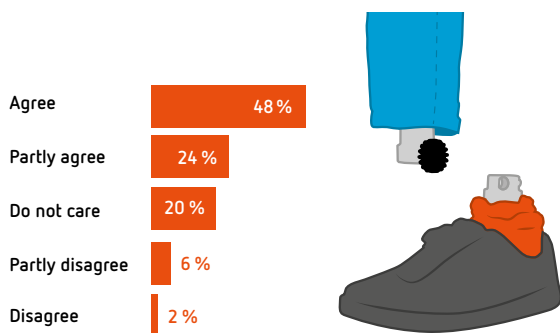
It is nice to remove the prosthesis during long journeys to relieve the pressure and increase the legroom.

58 %	Agree
22 %	Partly agree
9 %	Do not care
7 %	Partly disagree
4 %	Disagree
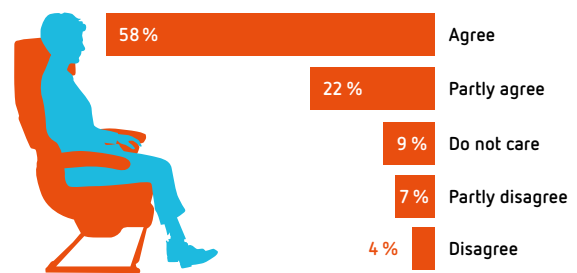
It would be a great advantage to be able to easily change foot/knee without having to change the socket.

80 %

Agree — Partly agree — Do not care — Partly disagree — Disagree
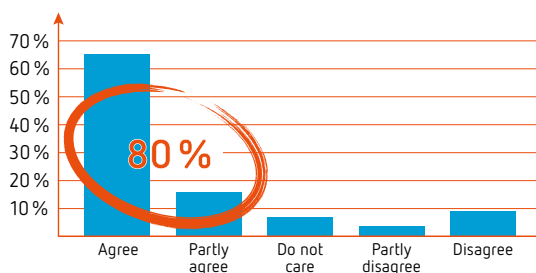
When travelling it would be beneficial to not have to pack prosthesis with sockets, as they affect the luggage volume

61% Agree
23% Partly agree
9 % Do not care
5 % Partly disagree
2 % Disagree

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