

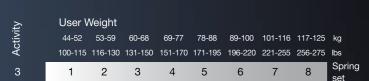


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Style and vigour inspired by passion.







Users at Level 2 and 4 activity who would benefit from this foot will require softer or stiffer springs as appropriate for the individual.

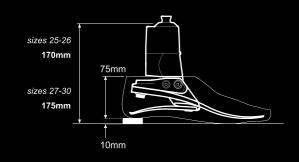
Spring set recommendations are for trans-tibial users. For trans-femoral we suggest selecting a spring set one level lower.

WARRANTY

36 months for élan foot, 12 months for foot shell The élan is the only microprocessor controlled foot that silently and intelligently senses terrain type and progressively responds using a hydraulic ankle with a truly compliant, high energy e-Carbon foot.



Selection



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élan

élan

Using microprocessors to control the degree of ankle movement during stance phase is just the beginning of the story of a truly revolutionary MPC foot. The élan uses the control system in a much more intelligent way!

It responds to terrain by moving the energy response between the powerful hydraulic actuator and the responsive e-Carbon foot springs to create subtle assistive movements to suit different slopes and speeds.



Richard: "The élan gives you extra assistance up the hills and up the slopes. You don't have to clamber over the toes, you progress through the foot, through mid-stance and you roll on the toes rather than having to climb up over the forefoot."

Jean François: "It is like someone is behind me and just pushing me to assist, pushing in the back to make the ramp less difficult."



natural response, increased comfort*

The human body has a natural walking speed that is determined by how efficiently the muscle can convert calories and energy into actual movement, it operates to achieve this balance as energy efficiently as possible.

The élan has a programmable speed boost that modifies the foot response for trans-tibial users to actively encourage additional energy return from the e-Carbon springs and a faster roll-over action.



terrain changes

The élan works intuitively because it senses every step and as no two are the same, the élan moves with the changes. On ascending a ramp or stairs heel stiffness increases and the toe moves upwards for energy efficient ascent and should speed or steepness increase the élan will moderate the foot to accommodate the change. Coming down a slope the heel softens and the toe stiffens to safely support and control descent.

In swing-through the dorsiflexed toe position works like a real foot to assist clearance and maintain the joints of the lower back in a sympathetic position.

Richard: "It is life changing, because once you are used to it, and you know how it adapts, you can do simple things on your prosthetic side that you couldn't do with a fixed ankle."











power

The élan's integral battery requires a daily charge but should this not be possible then the foot default mode operates like the award winning echelon foot.

programming

Using Bluetooth connectivity and auto-adaptive learning, the élan's intelligent software calibrates the foot to individual gait characteristics. Sensor feedback means that adjustment of the élan can easily be optimised. A wireless connection allows minute programming adjustments to be made on-screen. The clinician has full control of the set-up parameters and, while the user walks around in their preferred gait style, the élan's vector display graphics make accurate programming even easier.

Activity	élan mode	Resistance	Spring effect
Walking on level ground	Additional dorsiflexion ground clearance in swing phase.	Basic resistance settings	Toe-up for ground clearance, balanced spring response
Walking fast	Assist Added momentum in the 'step to step' transition of the gait cycle (transtibial only)	Plantarflexion resistance increased, dorsiflexion resistance decreased for ease of rollover	Stiffer heel action, softer toe action, increased energy storage and return
Walking uphill on a moderate to steep incline	Assist Enables easier ramp ascent	Progressively changes; increasing plantarflexion resistance and reducing resistance to dorsiflexion	Stiffer heel action, softer toe action, increased energy storage and return
Walking downhill	Brake Helps forward momentum and provides greater knee stability and security	Progressively changes; decreasing plantarflexion resistance and increasing resistance to dorsiflexion	Softer heel action, stiffer toe action, decreased energy storage and return
Low battery power	<i>sleep</i> Reverts to Basic Resistance	Functions like echelon foot	Toe-up for ground clearance,







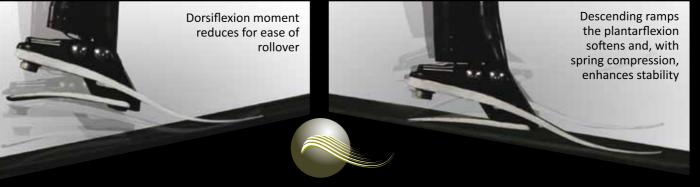
control

Ease of adjustment

settings



élan's calibration



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get busy living