

THE FORM OF THE NEXUS HAND

A New Approach

Users' previous experience of prostheses showed us that the traditional 'skin-like' silicone gloves impeded the hands' electromechanical performance. We set out to design a silicone glove with improved functionality and aesthetics, while automating the manufacturing process to reduce long-term costs.

The Nexus Hand is based on measured data collated from human hands to be more anatomically proportionate, while also sporting improved aesthetics. The natural form of our device is complimented by top-of-the-range, premium materials to create the ultimate combination of form and function.

Accredited Protection

The hand has an integrated medical-grade silicone glove with a soft-touch coating, providing the hand with IP44 rated dust and water resistance. This ensures that the hand is protected against foreign objects larger than 1mm (including wires, gravel etc.) that could cause damage, as well as liquids to make it 'splash proof'.

Innovative and Robust Features

The knuckle and thumb gaiter comprise of carefully designed 'bellowed' features that have been designed to expand and contract when the fingers and thumb close. This design has been cycle tested to an equivalent of 12 months usage; four times the warranty period of the part.

To provide a sustained grip while carrying out daily tasks, the Nexus Glove features grip-like textures that are 0.25mm small, created by over-moulding silicone inserts. The index finger is also moulded with a carbon additive which enables users to operate touch-screen sensitive devices. And a thickened palmar surface to the glove results in the user feeling more confident to fully make use of the all the hand's features, without the fear of accidental breakage or general wear and tear failure.

Ability to Personalise

The Nexus comes with polycarbonate covers that are painted on the inside making the hand easier to clean and, with a choice of four different colours, users can truly customise their hand in a way that speaks to their personality, making it something that is undeniably them.

