

New products of 2018

novel GmbH

loadsol® – the mobile loading sensor



The loadsol® load-measurement sole from novel (Munich, Germany) returns precise details of the normal plantar forces at work between foot and shoe, both standing and in free movement. And it will do so, irrespective of which part of the foot is bearing the load. Sensitivity at the foot is not affected. The load-measurement sole that is to be presented at OTWorld uses sensors that cover the entire surface of the foot. A system of miniaturised electronics records the data and transmits it to a smartphone.

The loadsol® app that goes with it provides direct bio-feedback for the forces acting on the foot. By taking measurements over a period of time, any instability can be assessed, together with data indicating whether or not prescribed load limits are being adhered to, as would be the case after an operation, for instance.

The app has been developed - in collaboration with a number of large rehab centres - for use in rehabilitation procedures. It allows various individual gait parameters to be assessed and facilitates the transfer of the data to a PC or hospital server. The data can then be examined and assessed in more detail using the loadpad® analytical software for PC.

The loadsol® sole is especially suitable for applications where the important thing is the total load that is exerted on the foot and joints and not the local load distribution.