



Load monitoring for lower extremity rehabilitation

loadsol® key benefits for practitioner:

- record extremity loads and monitor load bearing accurately and reliably using novel's high quality standards
- collect data sets remotely and in realtime
- measure during daily activities and provide the easy-to-use system for monitoring home progress
- synchronize using loadsync with lab equipment via TTL pulse

loadsol®

for controlled weight bearing

Use loadsol® for **rehabilitation** after lower extremity interventions (e.g. surgery). **Support fracture healing** with controlled weight bearing monitoring and feedback **during therapeutic training.**

Capture the interaction between body and ground accurately, effortlessly, and with flexibility.



Application package

Utilized system and software



Insoles:
**6 x loadsol® - mlp
of each size**



Measurement:
loadapp

For unrestricted implementation we recommend 6 pairs of loadsol® in various sizes and the loadapp mobile application to comprehensively evaluate the individual's progress.

References and publications

Published literature using the loadsol® for load monitoring after lower extremity intervention:

-  **Ability to control the load after surgery**
Gait & Posture (Mittlmeier, T. et al., 2006). Partial weight bearing after surgery for fractures of the lower extremity
-  **Effect of insole feedback training on partial weight bearing retention**
Gait & Posture (Augat, P. et al., 2022).
-  **Plantar force loading after achilles tendon rupture repair**
Journal of Sports Medicine (Ackermann, P. W., et al., 2019).

novel GmbH (Global, GER)
Ganghoferstrasse 68b, 80339 Munich
tel: +49 (89) 417767-0
e-mail: info@novel.de
web: www.novel.de
copyright © novel GmbH - August 2026

novel electronics inc. (North America)
3367 Babcock Blvd, Suite 101
Pittsburgh, PA 15237
tel: +1 (412) 755-0200
e-mail: novelinc@novelusa.com
web: www.novelusa.com