



Mobile in-shoe force sensors

loadsol[®]

Truly wireless load measurement

loadsol[®] enables truly wireless in-shoe force measurement in **any environment** and with **any movement**.

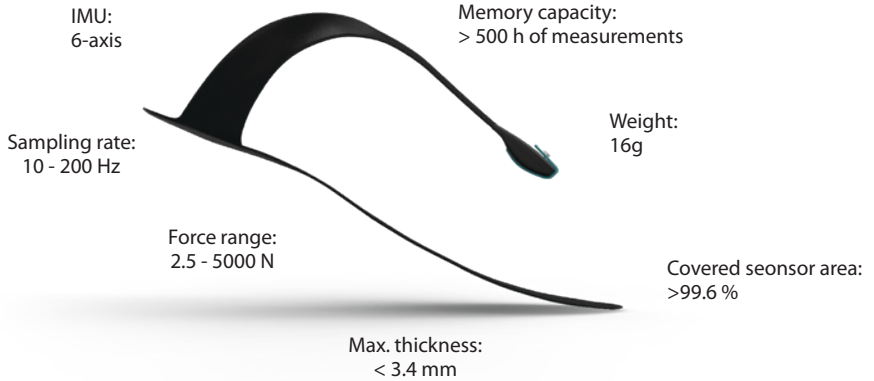
Capture the interaction between foot and ground **accurately, effortlessly**, and with **flexibility**.

loadsol[®] key benefits for researchers:

- record forces accurately and reliably using novel's high quality standards
- stream or collect data fully autonomously utilizing the integrated memory
- collect and monitor data remotely via cloud or your own network servers in realtime
- synchronize via TTL with lab equipment or external system with loadsync



Technical information



More loadsol® highlights*:

Memory capacity: > 500h of measurements

Available sizes: EU 34 - 48 / US 3 - 15

Rechargeable battery (via USB): > 23 h capacity

Thickness: < 3.4 mm

Synchronization with external systems: TTL input

Weight: 16 g

Biofeedback: audio and visual

Number of areas: 1, 2, or 3

Mounting system: flexfit or clip

Wireless control & stream: Bluetooth® 5

Data transfer: BLE® 4.2, BLE® 5 and micro USB

Intuitive smart multicolor status LED



*depending on loadsol version

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All loadsol® sensors are available in different sizes, widths:

Choose between:

- necessary spatial resolution and distinguishable sensor zones
- required temporal resolution and scanning frequency
- level of autonomy and independence from smartphone
- regulatory requirements



Technical data	loadsol - t	loadsol - ap	loadsol - acp/ loadsol - mlp	loadsol pro - t	loadsol pro - ap	loadsol pro - acp/ loadsol pro - mlp
# of zones	1	2	3	1	2	3
distinct zones	total area	anterior, posterior	anterior, central, posterior or medial, lateral, posterior	total area	anterior, posterior	anterior, central, posterior or medial, lateral, posterior
frequency (Hz)	10 - 100	10 - 100	10 - 100	10 - 200	10 - 200	10 - 200
synchronization	-	-	-	sync-in	sync-in	sync-in
flash memory	-	-	-	500 h	500 h	500 h
power supply	coin cell	coin cell	coin cell	rechargeable	rechargeable	rechargeable
data transfer	BLE 4.2	BLE 4.2	BLE 4.2	BLE 5 & USB	BLE 5 & USB	BLE 5 & USB
CE medical device	Yes	Yes	Yes	No	No	No
IMU (6-axis)	-	-	-	Yes	Yes	Yes

All loadsol sensors are available in different sizes, width and length of the strap.

Custom layouts may be requested for loadsol pro.

The loadsol sensors are medical products in accordance with Directive 93/42/EEC, Annex V. (Not available for loadsol pro).

buttonsens®

Quantifying fingertip forces

buttonsens® enables the quantitative analysis of **finger forces** and **dexterity**.

The textile sensor can be utilized to **detect forces** when pushing a **button** or any other finger-object interaction.

loadpad®

Unobtrusive low pressure sensing

loadpad® enables the effortless measurement of forces on contact areas and interfaces.

Utilize the mobile, wireless and versatile sensors to **analyze contact forces** between objects accurately and reliably.

texsens®

Unobtrusive low pressure sensing

texsens® enables the analysis of local pressures between soft interfaces (e.g. between skin & textiles).

Use texsens to precisely quantify pressure and **optimize your wearable products** or **garmets**.

emed®

Accurate & reliable foot analysis

emed® enables the analysis of the barefoot at highest quality level.

Easily scan the **pressure distribution** and get a reliable and accurate **analysis of the foot function**.

pedar®

Leading system for in-shoe measurement

pedar® enables the analysis of the **interaction between the foot and the shoe** at highest quality and precision levels.

Use the system for **in-shoe pedography** and collect reliable pressure and load distribution data.

pliance®

Accurate surface pressure analysis

pliance® enables the measurement of force and **pressure** distribution between **3D-deformed interfaces**.

Utilize pliance to analyse pressure on **seats, saddles, mattresses** and any other soft or hard object.