novel

loadglove

Quantifying hand and fingertip forces

loadglove detects the **normal force** acting on sensors placed along the **hand**.

The glove can be used for applications in **ergonomics**, **manufacturing**, **quality control**, and **biomechanics.**

hand and fingertip force sensor

loadglove key features:

- consist of palm sensor and up to 13 finger sensors customized as desired
- measure forces between hand and most objects with reliable and precise capacitive force sensor
- quantify forces to design best practices and work standards for processes
- analyze mechanical properties of buttons or switches for ergonomic optimization
- enable precise work flow standards by creating thresholds and using auditory or visual feedback
- visualize and analyze data in real-time via loadapp®

Technical information

The loadglove is the ideal solution for mobile applications in which the load on the hand is to be monitored in daily routine. It consists of 1 loadpad sensor for the palm and 1-13 buttonsens sensors for the fingers.

	loadpad	buttonsens
dimension	90 x 80 mm	17 x 17 mm
sampling rate (Hz)	10 – 100 Hz	10 – 100 Hz
battery	48 h	48 h
force range	10 – 4000 N	2.5 – 60 N or 10 – 150 N
accuracy	± 10%	± 10%
operating devices	iOS or Android mobile devices	iOS or Android mobile devices

loadapp specifications

Visualize data as time series and get visual or audio feedback in realtime

Compare precise load on each sensor

Synchronize measurement with video

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