

MOTION CAPTURE FOR HUMAN FACTORS RESEARCH AND WORKPLACE ERGONOMICS

OPTIMIZE HUMAN WELL-BEING

From behind the wheel to behind a desk, ergonomic thinking is vital to ensuring workers can do their jobs safely and comfortably with minimal physical wear and tear. And the only way to do that is to analyze the biomechanics of work processes and use that data to design better workstations. Measuring physical performance in a restrictive setting limits the quality of your results. Movella offers technologies for capturing, analyzing, and assessing data outside of the laboratory in any environment, at the moment.



Easy to use, anywhere

Use Xsens Motion Capture solutions everywhere and get lab-quality data in the field. The system with intuitive interface is easy to set up, calibrate and modify. It helps you to focus on what is important in your work.



Accurate data

Experience the benefits of full magnetic immunity in all conditions. Our proven biomechanical model and sensor fusion algorithms ensure the highest quality motion analysis even in the most challenging magnetically disturbed environments.



Reliable data

Xsens Motion capture solutions offer validated, peer-reviewed data and features integrations with all market leading software packages, offering you the highest quality in motion capture and human movement data analysis.

Xsens Motion Capture

Motion capture in ergonomics is one of the technologies for workplace analysis and human task analysis. Movella technologies utilize the assessment of the human body's abilities and limitations – applying the learnings from human interaction with products, systems, and the environment for the purpose of improving efficiency, comfort, and safety.



Integrations

Live Stream or export your motion capture data seamlessly into your Ergonomics software, such as Siemens PLM, Anybody, Scalefit, OpenSim, Vivelab Ergo, Visual 3d, and BoB Biomechanics.

We also provide plugins for finger trackers from Manus and Stretchsense and integration with EMG from Delsys.

Research & Validation papers

Movella Technologies are helping universities and research institutes around the world to bring meaning to movement. You'll find details of use cases, research conducted using Movella products – as well as validation studies carried out by independent researchers on our website. Go to www.movella.com/research-validation



MVN Reports

Movement assessments on the spot



Understandable

Fast and accurate data analytics and reporting in an easy-to-use format.



Meaningful

Highly accurate results, helping you perform precise and objective assessments quickly and easily.



Usable

Fully standardized reports with application-specific data produced in minutes.

Ergonomics reports: RULA, REBA, Adjustable ergonomics

- Automated calculation for every frame
- Export data from a specific frame
- Arm and wrist analysis
- Neck, trunk, and leg analysis
- RULA score and risk factor
- Specifying load, support, and muscle use
- 3D visualization of recording

