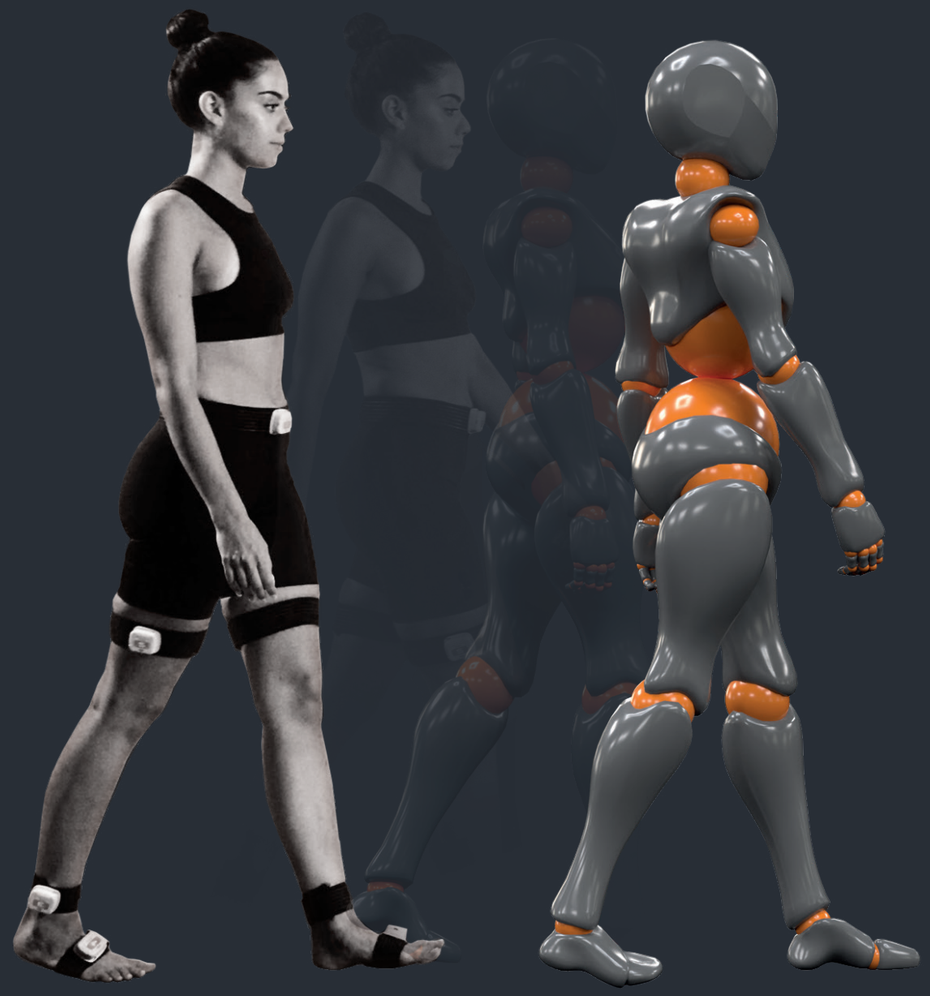

MOOVER GAIT

TECHNICAL SPECIFICATIONS

MOOVER GAIT

inertial sensors network

Moover Gait is the ideal tool for clinicians and specialists interested in objectively monitoring and quantifying the patient's physicalstate and evaluating the effectiveness of a rehabilitation program.

Thanks to the network of inertial sensors worn by the patient, it provides a complete and accurate movement analysis.
By applying 7 small wireless inertial sensors on the lower part of the body (pelvis, thigh, tibia and foot) with a quick coupling and release system it is possible to acquire the walk in a straight line or on a treadmill displaying real-time data on freeStep. Possibility to acquire the video of the walk synchronized with the 3D analysis with both the 7 and 16 sensors setups.

WEARABLE
Wireless, non-invasive, without external infrastructures.

ACCURATE
Validated with gold-standard optoelectronic systems

INNOVATIVE
Real-time 3D viewing and video synchronization.

MOOVER GAIT
Analysis parameters

GAIT CYCLE SYMMETRY INDICES
· Half Step duration · Step duration
· Stance Phase duration Swing Duration
· Single Support Duration · Double Support duration
· Half Step length · Step length · Shock Impact tibia
· Shock Impact foot

SPACE-TIME INDICES
· Speed · Half Step duration · Step duration
· Stance Phase duration · Swing Duration
· Single Support Duration · Double Support duration
· Half Step length · Step length
· Shock Impact tibia · Shock Impact foot
· Arm swing velocity and Arm range of motion
· Report Printouts

ANIMATIONS
· Generation of 3D animation files · BVH export
· Movement reproduction · Slow motion function

3D JOINT ANGLES
PELVIS: Pelvic Tilt, Pelvic Drop, Pelvic Transverse Rotation
HIP: Abduction/Adduction, Flexion/Extension, Internal/External Rotation
KNEE: Abduction/Adduction, Flexion/Extension, Internal/External Rotation
ANKLE: Inversion/Eversion, Flexion/Extension, Internal/External Rotation
SHOULDER: Flexion/Extension
NECK: Flexion/Extension, Rotation, Lateral Bending
TRUNK: Obliquity, Tilt, Rotation

COORDINATION INDICES
TRUNK-PELVIS: Coordination index
ARM-HIP: Coordination index Trunk and Pelvis dynamic stabilometry

Company whit Management System
Quality Certificate N° 50 100 16690

CERTIFICATION
CE FDA MD NMPA