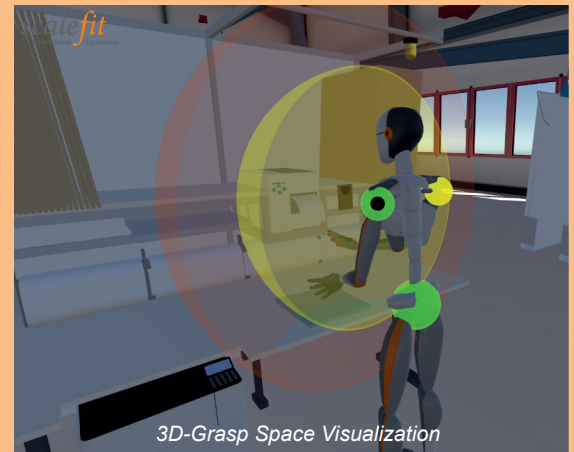


INDUSTRIAL ATHLETE

Digital Ergonomics Analysis in real time and on-site

scalefit supports companies in making workplaces safer, healthier and highly ergonomic. With extensive expertise, years of experience and innovative ideas. Using the motion capture-based measurement system INDUSTRIAL ATHLETE, physical workload is visualized and evaluated directly on site on the basis of occupational science and biomechanical parameters – broken down by body region. To help detecting causes of disorders, injuries and damage.



Physical workload: Identify hidden health risks

scalefit sets the highest scientific standards in the ergonomics analysis of workplaces, products and processes. We combine the award-winning, intuitive INDUSTRIAL ATHLETE analysis software with the reliable IMU-Mocap technology from XSSENS to create one of the most versatile measurement methods in ergonomics. Frequent load types such as body forces, awkward postures and repetitions are identified for each body region and evaluated according to current ergonomic and biomechanical criteria (DIN, EN, ISO).

One system – various options

You would like to get an analysis and advice from our ergonomics experts? We will conduct a load analysis at your premises – directly on-site and together with your employees. You will receive prompt reports on the results and tailor-made solutions for ergonomic workplace design.

You would like to use your own resources and combine them with our system? We offer the INDUSTRIAL ATHLETE software for purchase. The package includes an XSSENS motion capture system, our award-winning analysis and reporting software as well as an extensive on-site training and free updates for at least two years.

You are looking for ergonomics software for your existing motion capture system? As an „add-on“, the INDUSTRIAL ATHLETE analysis and reporting software expands an existing XSSENS MoCap system. New or already recorded data can be immediately displayed and evaluated according to current ergonomic requirements.

Clear and understandable: Visualized and animated

The detected body postures and joint loads are graphically animated and synchronized with video recordings of the real work performance.

Traffic light system indicates level of physical load

With its integrated data analysis and automatic result reports, the INDUSTRIAL ATHLETE enables fast and meaningful work load analyses, physical risk assessments and ergonomic workplace design without the need for time-consuming procedures and human resources.

Train for healthful habits and design ergonomic workspaces

scalefit enables SMEs and large companies, universities, science and the health sector to design low-stress workplaces and develop health promoting measures. For a targeted contribution to the prevention of work-related musculoskeletal disorders.

Healthy work through biomechanics

Our company has its origins in biomechanics and software engineering, with the continuous development of customer-oriented applications and tailor-made solutions.

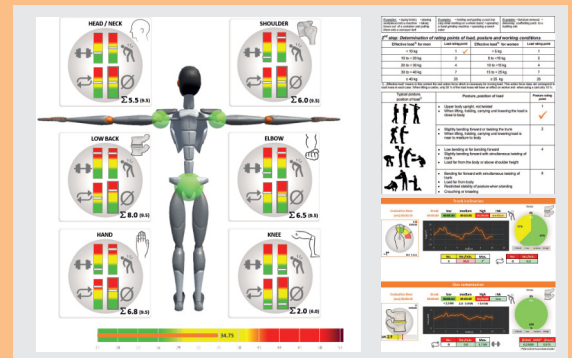
We offer integrated analysis concepts for logistics, production and service companies – supplemented by virtual reality and 3D animation.



Request your online-demonstration!
www.scalefit.de

INDUSTRIAL ATHLETE

Product Features



ERGONOMICS ANALYSIS

- 21 load parameters and avatar display
- Identification of (hidden) health risks
- Biofeedback according to DGUV traffic light (DIN/EN/ISO)
- Real-time stress analysis
- 3-D Grasp space visualization
- STatic/DYNamic shoulder load
- Load input with left/right assignment
- Lumbar disc compression calculation
- Distance and timer display
- Avatar/video overlay with motion tracking
- Exoskeleton and CAD workstation simulation
- CSV raw data and full HD video export
- Configurable GUI layout
- Freedom of movement with wireless sensor technology (XSSENS)
- Language selection (12 languages currently available)
- Product ergonomics and certification

AUTOMATIC RESULT REPORTS

- Result overview via load map
- Quick analysis for 6 body regions and 3 load types
- Evaluation according to international standards (DIN, EN, NIOSH)
- Local and global stress score
- Mainz-Dortmund dose model
- Key Indicator Method LHC
- External RULA evaluation
- Cumulative dose calculation
- Extrapolable to daily working time
- Individual threshold adjustment
- Color coding of risk levels
- Individual layout design
- Ready-to-print formatting

LOAD PARAMETERS

The selection, position and size of the parameter boxes is adjustable and can be adapted to the respective work- and load-specific requirements.

Up to four individual configurations can be saved as templates. The parameters are evaluated according to the traffic light scheme based on the currently valid DGUV guideline values (DGUV Information 208-033).

- Disc compression
- Trunc inclination
- Arm elevation
- Shoulder
- Shoulder moment
- Work above shoulder
- Head inclination
- Head torsion
- Wrist
- Knee flexion

