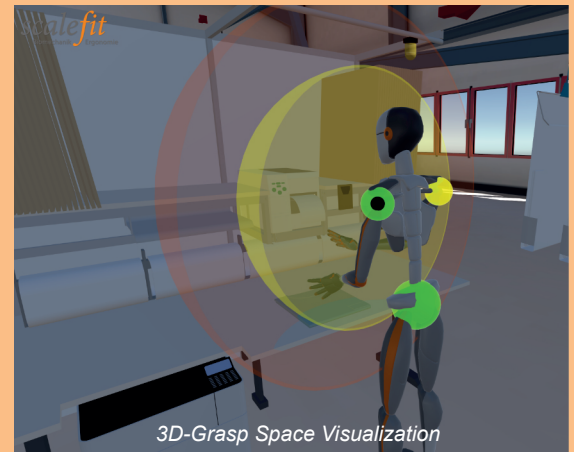


INDUSTRIAL ATHLETE

Digital ergonomics for future-proof workplaces

Fast, precise, and user-friendly: scalefit INDUSTRIAL ATHLETE visualizes physical strain exactly where it occurs – replacing time-consuming, analogue assessment methods. Whether it's digital risk assessment, exoskeleton validation, ergonomic workplace design, or product evaluation: our solutions are data-driven, practical, and flexibly tailored to your needs.



Physical workload:

See the problem – solve the problem

Health, performance, attractiveness – scalefit takes ergonomic analysis to a whole new level. The user-friendly measurement system combines state-of-the-art motion capture technology (XSENS) with biomechanical models and internationally recognized assessment standards.

In focus: force, posture, and repetition – the three key factors for musculoskeletal disorders (MSD). This makes physical load objectively measurable and provides the crucial data basis for efficient ergonomic workplace design.

Clear and easy to understand: Visualized and animated

The detected postures and joint loads are graphically animated and synchronized with video recordings of the actual task and work environment.

One system – various options

Ergonomics Analysis: Our experts analyze workplaces directly on-site – together with your employees. You receive immediate first results and comprehensive reports with clear recommendations within a few days.

Product Ergonomics: Objective evaluation of your products, tools, processes, or exoskeletons – with a direct comparison of ergonomic benefits.

System Purchase: You have the expertise and infrastructure but not the right tools? We offer INDUSTRIAL ATHLETE packaged with XSENS Motion Capture – including training and updates.

Software Add-on: Already own an XSENS system? INDUSTRIAL ATHLETE as an add-on scientifically evaluates both new and existing data – immediately and in compliance with international standards.

Traffic light system reveals level of physical strain

With its integrated data analysis and automatic result reports, INDUSTRIAL ATHLETE provides meaningful workload analysis and rapid risk assessments – the starting point for effective conditional and behavioral prevention as well as targeted TOP measures.

Train healthy behavior and design ergonomic workplaces

scalefit enables SMEs, large companies, academia, and healthcare to design low-strain workplaces and develop health-promoting measures – making a targeted contribution to the prevention of work-related musculoskeletal disorders.

With biomechanics towards healthy work

Our company is rooted in the science of biomechanics and software engineering, continuously developing user-oriented applications and tailored solutions.

Innovative measures for modern companies

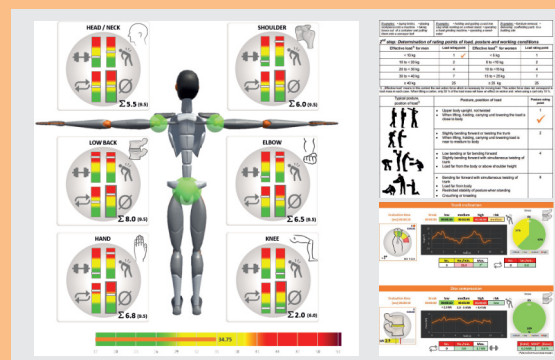
- ✓ Objective measurement data, reliable and compliant with occupational safety standards (DGUV Information 208-033 / DIN, ISO, NIOSH)
- ✓ Suitable for the assessment and documentation of working conditions (in line with German OSH Act §§5 and 6)
- ✓ Evaluation of up to 10 different tasks per day, scalable for companies of any size
- ✓ Digital physical risk assessments using the Key Indicator Method (LHC) – completed in just minutes



Request your online-demonstration!
www.scalefit.de

INDUSTRIAL ATHLETE

Product Features



ERGONOMICS ANALYSIS

- 25 load parameters and 3D avatar visualization
- Identification of (hidden) health risks
- Real-time feedback using DGUV traffic-light system (DIN/ISO)
- Reach analysis with 3D spheres and hand tracking
- Load input with left/right assignment
- Calculation of lumbar disc compression
- Walking distance and timer display
- Video overlay with motion tracking
- Exoskeleton and CAD workplace simulation
- CSV raw data export and Full HD video rendering
- Individually configurable parameter display
- Freedom of movement through wireless sensors(XSENS)
- Wide language selection (12) and background customization
- Standards-based product ergonomics and certification

AUTOMATED RESULT REPORTS

- Result overview via Load Map
- Risk analysis for 6 body regions and 3 load types
- Evaluation using international standards (DIN, EN, NIOSH)
- Local and global load score
- Mainz-Dortmund dose model
- Key Indicator Method (lift, hold, carry)
- External RULA assessment
- Cumulative dose calculation
- Extrapolation to daily working time
- Customizable limit values
- Color coding of risk levels
- Customizable report layout
- 15 languages available
- 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).

- Lumbar disc compression
- Trunk flexion
- Trunk rotation & lateral tilt (NEW)
- Shoulder / arm elevation
- Shoulder moment
- Over-shoulder work
- Head inclination & torsion
- Cervical disc compression
- Forearm rotation
- Wrist flexion & extension
- Wrist abduction & adduction
- Knee flexion
- Load weight
- Walking distance

