

# ERGONOMICS EVALUATION

## 3DEXPERIENCE MANUFACTURING & PRODUCTION PROCESS



### ERGONOMICS ANALYSIS WITH A LIFELIKE MANIKIN EDITOR

Ergonomics Evaluation enables manufacturing engineers, designers and ergonomists to evaluate product and workplace ergonomics.

Ergonomics Evaluation enables users to place lifelike manikins in a 3D model to evaluate human interactions and accommodation with a product or workplace. Users can analyze and predict human safety and performance directly using 3D. They can examine, score, and iterate whole-body and segment postures for ergonomic analysis of defined work in the context of a product or workplace design.

## Rapidly evaluate workplace and product designs, with integration of human factors and ergonomics requirements

Non-ergonomics users that are expert in product and workplace design can easily evaluate the way humans will interact with physical environments.

## Detect potential for work-related injuries early in the design process

Users are able to find potential ergonomic issues early in a product or workplace design phase. They can recommend design changes at a time when change is easier and the cost is lower. When issues are detected, users can seamlessly collaborate with other stakeholders to find the best solution.

## Capture and re-use ergonomic enterprise standards

A customized manikin, including its attributes and skills, can be saved for use in future evaluation scenarios. This saves time and effort for downstream users while capturing company know-how.



Evaluate human accommodation as part of any design workflow



Create, manipulate and manage manikins

## Process Highlights

- Groundbreaking **3DEXPERIENCE**® platform
- Customizable range of motion for each joint
- Comfort or safety scoring for postures
- Large population dataset
- Custom manikin anthropometry
- Push, pull and carry analysis
- Lifting and lowering analysis
- Rapid upper limb assessment
- Manikin vision assessment

## Our 3DEXPERIENCE platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 170,000 customers of all sizes in all industries in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).

