

Creo® Manikin Analysis Extension

SIMULATE ADVANCED HUMAN-PRODUCT INTERACTIONS

Designers are often challenged with ensuring that their latest product innovations and workplace designs meet demanding customer requirements for form, fit and function. Conforming to product and workplace health and safety standards is also becoming increasingly paramount.

To address these critical design issues, designers, ergonomists and Human Factors specialists in a variety of industries can now take advantage of a new solution that provides a deeper understanding of how products and workplaces will be manufactured, used and maintained.

Creo Manikin Analysis Extension enables you to visualize, simulate and communicate highly complex human-product-workplace interactions – particularly repetitive manual tasks – earlier in the design process. The result: you can design more innovative products and workplaces that are optimized for people – and deliver them to market faster, with lower product development costs.

Creo Manikin Analysis Extension is an easy-to-use, powerful add-on to Creo Manikin Extension that enables you to test your designs against a number of quantitative Human Factors and workplace standards and guidelines – early in the product development process. By determining how much force it takes to push, pull, carry or lift your product, you can ensure the task is optimized for the intended target human population. This advanced understanding of human-product interactions will help improve your product development processes.



Creo Manikin Analysis Extension helps you analyze human movements such as pushing and pulling.

Key Benefits

- Simulate human-product interactions such as pushing, pulling, lifting, lowering and more
- Reduce time, budget and obsolescence associated with physical prototypes
- Communicate and share complex human-product interaction issues using advanced reporting capabilities
- Optimize designs for more complex human-product interactions earlier in the design cycle
- Ensure conformance with safety, health, ergonomics and workplace standards and guidelines

Capabilities & Specifications

Creo Manikin Analysis Extension enables you to easily analyze and optimize human-product-workplace interactions using a dedicated set of analysis algorithms that leverage an intuitive user interface. This easy-to-use solution is fully integrated into the Creo design environment, thereby allowing you to leverage existing Creo simulation and analysis capabilities.

For advanced assessments of human-product-workplace interactions, such as manual handling, workplace layout and repetitive movements, Creo Manikin Analysis Extension provides designers and Human Factors experts with the ability to validate their designs against a number of quantitative Human Factors and workplace standards and guidelines such as:

- Material Handling (RULA)
- Pushing/Pulling (Snook)
- Lifting/Lowering (Snook)
- Carrying (Snook)
- Lifting/Lowering (NIOSH)

Repeatable Analyses for Target Audience Accommodation

- Position a manikin in the correct posture as determined by the design scenario. Capture the position as a “snapshot,” so you can save and reuse the posture and associated analysis settings
- Perform the desired analysis by applying the necessary algorithms for pushing, pulling, lifting or other design-related manual tasks
- Replace the initial manikin with another relevant manikin and repeat the analysis to assess the impact of the design on the entire target population
- Update the saved analysis for the desired task



Creo Manikin Analysis Extension helps validate designs using standard ergonomic assessments such as NIOSH.

Language Support

- English, French, German, Italian, Korean, Japanese, Spanish and Chinese (Simplified and Traditional)

Platform support and system requirements

Visit the [PTC support page](#) for platform support and system requirements.

To learn more:

For more information, visit: [PTC.com/products/creo](https://www.ptc.com/products/creo)

© 2012, Parametric Technology Corporation (PTC). All rights reserved. Information described herein is furnished for informational use only, is subject to change without notice, and should not be construed as a guarantee, commitment, condition or offer by PTC. PTC, the PTC logo, Creo, and all PTC product names and logos are trademarks or registered trademarks of PTC and/or its subsidiaries in the United States and in other countries. All other product or company names are property of their respective owners. The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.

J0222_Creo Manikin Analysis Extension_DS_EN-0612