



DELMIA V5 Human: Save Time and Enhance Efficiency in Building Human Models with the Use of Catalogs.

Our DELMIA Human Modeling experts share their knowledge to maximize your efficient use of the DELMIA V5 Human Solutions. In this issue, we will focus on a simple, but very effective way to enhance your productivity of V5 Human through the use of catalogs.



What is a Catalog?

A catalog is similar to a preset library, where you can create, save, and reuse predefined manikin attributes. The catalogs are really easy to use and provide a great flexibility to answer any type of user needs. Under the manikin structure, several aspects of a manikin can be saved in a catalog, such as anthropometry, tools, posture, clothing, tasks, and other related manikin characteristics.

You do not need to be an expert in ergonomics to create or use catalogs; but typically the ergonomics "guru" of an enterprise will define strategic manikin dimensions to be tested, precise postures to adopt and specific ergonomic guidelines to respect, and save them in a catalog. Using the user-friendly interface of DELMIA V5 Human, these aspects can be rapidly identified and applied to any manikin in any context by any user.

Once a catalog has been created, the information is available for the entire enterprise through a simple click of an icon on the user's GUI. Users will now have the capability to re-use their "know how" efficiently and share it with all simulation or process engineers so they may build their own process. They will also be able to perform efficient baseline ergonomics analysis with the manikin that represents the specific guidelines outlined in the catalog. This ultimately saves time, improves accuracy, and ensures consistency of the simulations being analyzed.

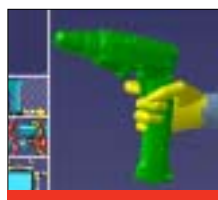
Building your Catalog

A catalog is fully customizable and can be organized and sorted using different tools: category or filter. Information such as tool grasp, target population anthropometry, and protective equipment can be saved inside catalogs.



Tools

When the user builds a process, he needs to have the manikin pick and grasp different types of tools. Using the catalog it is possible (by a simple click) to teach the manikin how to grasp the tools. A typical grasp includes information such as the location where you want the manikin to grab the tool, local posture of the manikin's fingers, offset of the control point for further reach, constraint, and attach points. This information can be stored in the catalog and then applied as needed.



The application of the tool catalog can be applied efficiently to different tools for any manikin in the scene regardless of their dimensions or the hand they are using.

Anthropometry

Another interesting application for the catalog is saving the anthropometry of manikins that represent a target population. Regardless to techniques used to create these manikins (MonteCarlo,



MultiNormal, or standard), once the information is stored in the catalog, it can be applied to any manikin; the user simply builds a complex process once with a default manikin and then they can automatically validate the process against a series of predefined manikins in the catalog. This is a very efficient way to ensure the accommodation of the target population.

Equipment and Clothing

Once the precise positioning of the rigid protective equipment has been completed on the manikin, the object location can be saved inside a catalog. Then, the defined equipment can be placed automatically to other manikins by applying the catalog at the right position for each different manikin.



By adding clothing thickness as anthropometrics input, reducing the range of motion, and finally attaching the rigid equipment, the user can efficiently assess the impact of protective equipment in a small workstation.

Learn more on using Catalogs

For more information, please visit our user support website at www.delmiainsupport.com (login required) to download a basic step-by-step introduction to using catalogs. Please note, the DELMIA support website is only available to users that fulfill current status for standard license/maintenance agreements. If you are unsure on your status, please contact your account representative or send us an email at www.info@delmia.com