

Assembly Work Instructions™

Fast and Easy-to-Deploy V5 Authoring Solution for Assembly Shop Floor Work Instruction Documents

Overview

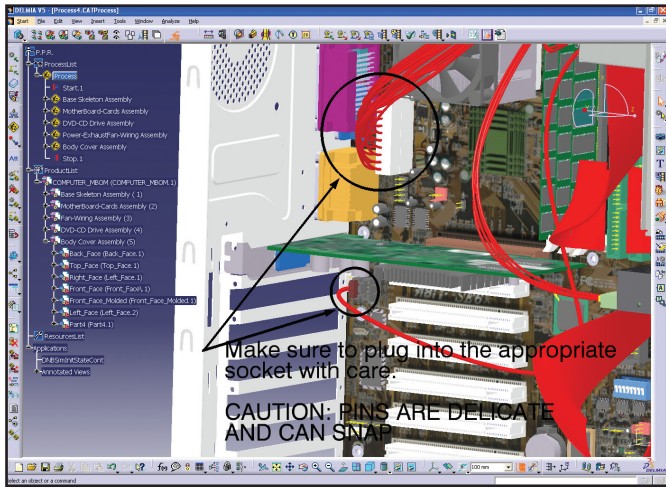
Generate your Shop Floor Work Instructions Automatically from your 3D Design Data All manufacturing companies – from automotive to aerospace, consumer goods to electronics, and their suppliers – must create work instruction documentation for shop floor operations. DELMIA V5 Assembly Work Instructions for the assembly domain automatically generates shop floor work instructions directly from CAD data, freeing up critical personnel and reducing the time required to generate shop floor work instruction documents.

Traditionally, shop floor work instructions are created manually within a CAD environment as part of the workflow, reducing the amount of time spent on actual design engineering tasks. Then, when there is a change in the design or the manufacturing process, the affected documents would need to be manually recreated, resulting in additional time spent on non-engineering functions. DELMIA V5 Assembly Work Instructions frees up this time, allowing the design engineering group to be more productive and to reduce costs. Users can associate assembly simulations and work instructions with 3D geometry and automatically regenerate documents when the geometry changes, saving valuable engineering time.

Delivering Accurate and Advanced Support for the Shop Floor Worker An investment in engineering is completely leveraged only when the data is properly communicated throughout your workforce. DELMIA V5 Assembly Work Instructions provides easy-to-use capabilities to generate and update shop floor work instructions.

DELMIA V5 Assembly Work Instructions authoring provides companies the flexibility to move from traditional 2D paper-based instructions to automatic generation of work instructions using standard software functionality. It can also be customized to output 3D XML into Microsoft Office® documents that will allow users to manipulate their view of the assembly process from within the document.

In addition to improving communication with your shop floor technicians, this capability enhances communications with outsource manufacturing operations. This provides a more effective way to explain and share work instructions and reduce time and money spent on site visits and training for workers to effectively complete their part of the process.



Key Functionality

- Create assembly simulations and work instructions with CATIA 3D Geometry
- Create sequential assembly operation stations representing the assembly flow
- Create company standard Excel-based work instruction templates
- Automatically generate 2D shop floor work instruction documents
- Changes are instantly incorporated with update capability
- Create movies, print paper style work instructions and 3D-based simulations for workers on the shop floor
- Customize capability to output 3D XML within Microsoft documents for a paperless shop floor environment

Benefits

- Open architecture for customization and extension
- Reduce time to generate shop floor work instruction documents
- Reduce errors in communication with the shop floor
- Reflects all changes in geometry in work instruction documents automatically
- Fast and easy-to-use

Save Time, Cost and Improve Accuracy of Work Instructions

DELMLIA V5 Assembly Work Instructions for the assembly domain reduces the authoring time by providing preconfigured functionality to generate work instruction documents, saving valuable engineering time. Users can take advantage of the automated features to quickly and easily set up 2D instruction documents and training aids. Cost incurred due to data changes and out-of-date work instructions is reduced by regenerating work instructions from the most current engineering data. This assists manufacturers in implementing good business practices that enforce regenerating work instructions whenever there is a change in design.

Generating work instructions from the most current data will also minimize the amount of guesswork and number of errors caused by ambiguous instructions, thus ensuring the highest level of productivity and understanding on the shop floor.

Process	Author	User	Description	Cycle Time	Reference
Process.1	User2	User2	Mother Board / Fan unit assembly	30min	
Process.1	User1	User1	Mount Mother-Board, fan & graphics		
Process.1	User1	User1	Base Frame Assembly		
Process.1	User3	User3	Media Drives Installation	15min	
Process.1	User4	User4	Power Unit & Wiring	15min	
Process.1	User4	User4	Install Power Box & wiring connections		

Step1 Start by connecting Hard

Step2 Connect to Mother Board

Step3 Connect the DVD media drives

It is mandatory to connect with most care as the pins are delicate & can snap.