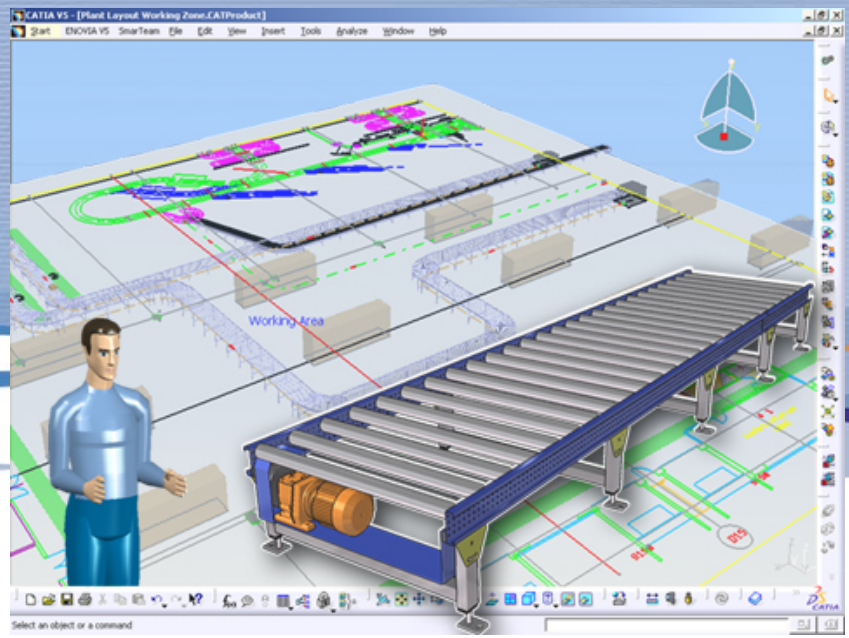
PLM Forum

Generative Mechanical Design

GMD



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Dassault Systèmes AB
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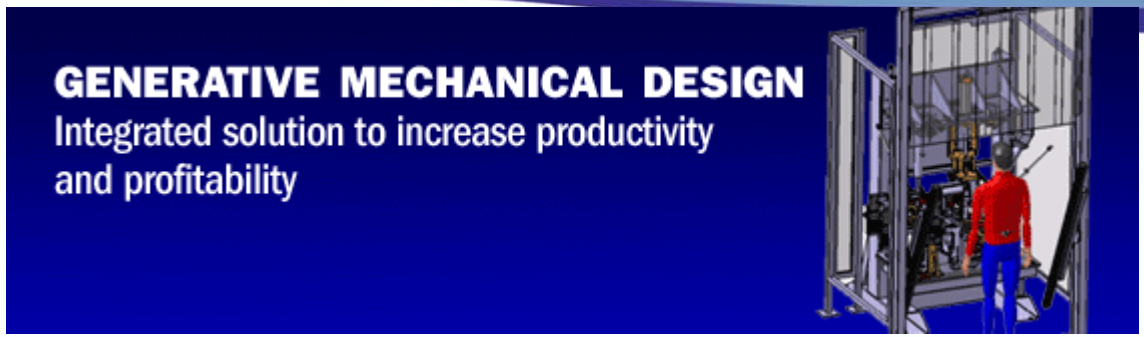
What is GMD?



Generative Mechanical Design

Reduces cycle time, design time and manufacturing costs through design reuse, design intent and reduction of errors.
Fosters innovation & increases competitiveness.

- **Capture and reuse of design knowledge**
- **Encapsulation of design rules using standard parts**
- **Automation of repetitive or tedious design tasks**
- **Enhanced collaboration among departments:**
  design, analysis and manufacturing
- **Increases innovation**

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- GMD is a solution that allows an automatic configuration of the assemblies (It is not only a matter of modifying parts/assemblies dimensions)
  - Parts can be replaced by others
  - Parts can be inserted/removed
  - Applications (Drawings, NC, FEM) can be linked to the generative Templates and are automatically modified when a new configuration is defined
- GMD is an easy to use solution
  - Once the Generative Template has been created, it is quite easy to define the required configuration only by modifying the parameters values
  - The embedded knowledge can be deactivated (Manual & Automatic modes) if a customer has some specific requirements
- GMD is an integrated solution
  - GMD is fully integrated with SmarTeam (PDM) allowing a better use of standard components
- GMD is an entry point to more advanced solutions
  - It can be implemented anywhere in the processes (Welded structure, End to end process)
  - It is the first step to implement the sales Configurator solution
- GMD is a solution dedicated to the F&A market