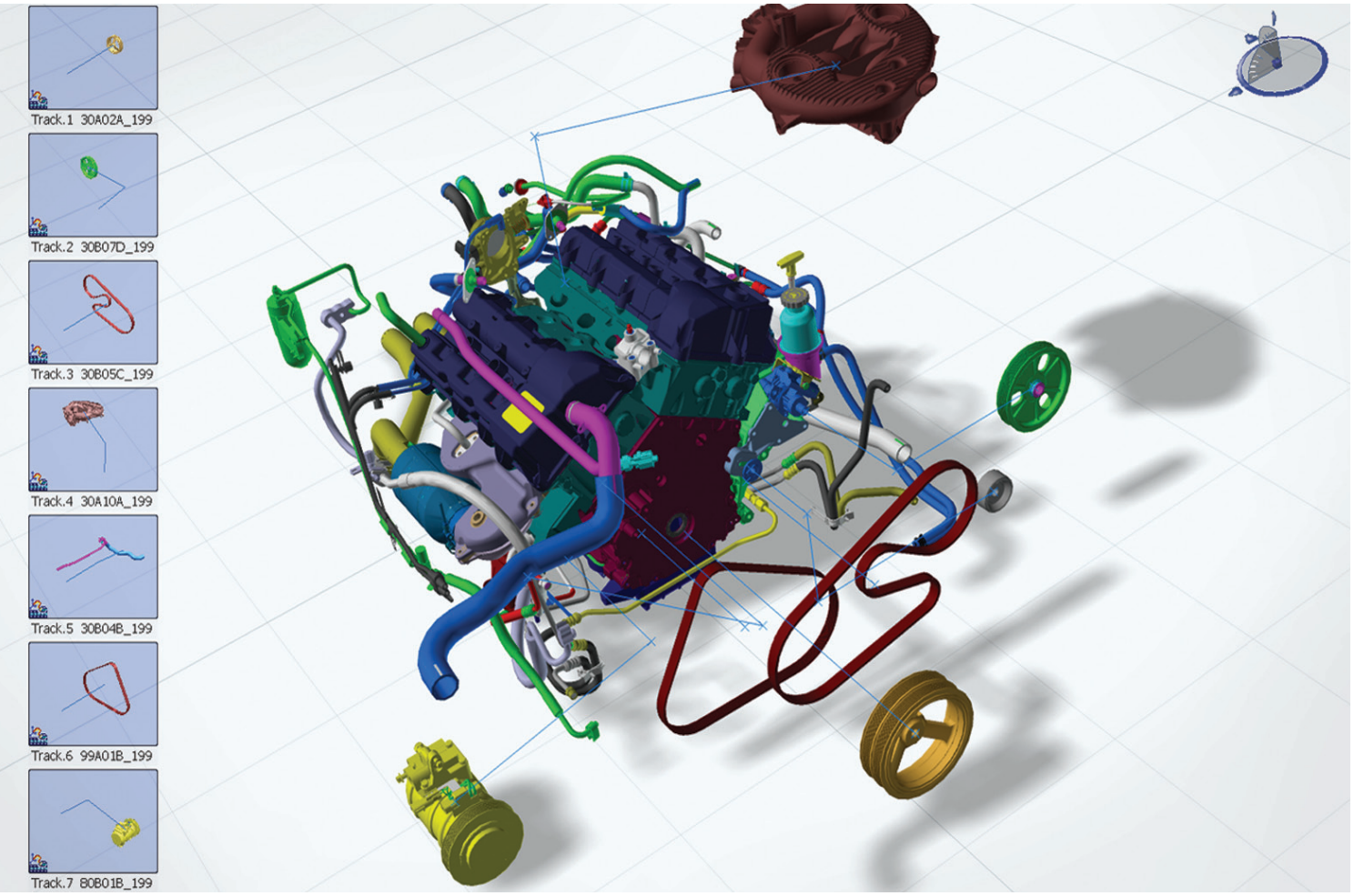
DASSAULT SYSTEMES

DELMIA

ASSEMBLY PROCESS SIMULATION

Datasheet



ASSEMBLY FEASIBILITY STUDIES THROUGH 3D SIMULATION:

DELMIA ASSEMBLY PROCESS SIMULATION PROVIDES A 3D ENVIRONMENT TO INTERACTIVELY CREATE AND MANAGE ASSEMBLY TRAJECTORIES AND DETERMINE FEASIBILITY OF THE ASSEMBLY PROCESS.

DELMIA Assembly Process Simulation (APS) enables assembly process planners to perform product assembly feasibility studies through simulation. Users can discover design for assembly issues and communicate this information directly to product designers or other stakeholders early, when the ability to implement product or process changes is less complicated and the cost of such changes is low.

DELMIA Assembly Process Simulation provides a virtual 3D environment, including shop floor resources and layout. Planners are able to create, optimize and validate the assembly process in the context of the manufacturing setting where the plan will be executed.

INTERACTIVELY CREATE ASSEMBLY TRAJECTORIES

Users of DELMIA Assembly Process Simulation can view the product in its assembled state in the V6 immersive environment. Through simple and intuitive commands, the user is able to create interference-free product disassembly trajectories. A part's trajectory can easily be edited by adding, removing or reordering points along the part's trajectory path.

DEFINE PROBE POINTS FOR ANALYSIS DURING SIMULATION

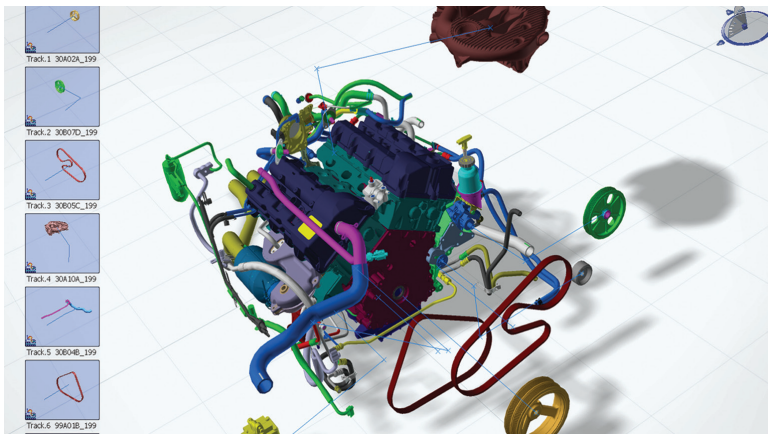
Planners are able to define probes for checking part interferences by measuring between parts or by sectioning parts and applying these probes to specific steps in the manufacturing simulation.

DEFINE ASSEMBLY SIMULATION SCENARIOS

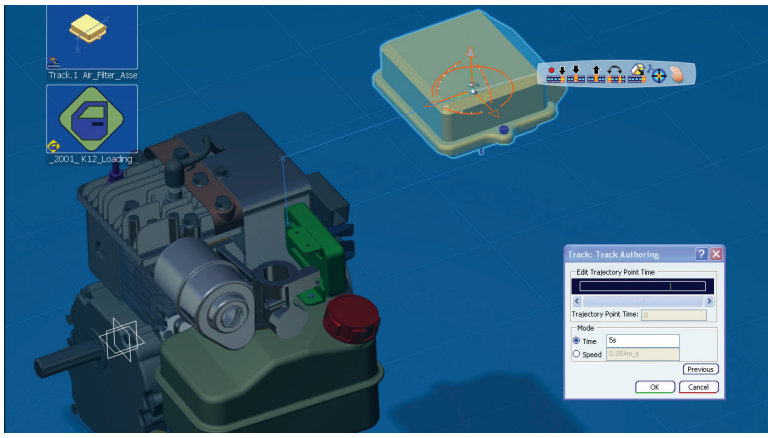
DELMIA Assembly Process Simulation provides the ability to define and store assembly scenarios. Desired trajectories and analysis probes can then be selected and used during the simulation. Multiple assembly simulation scenarios can be defined and saved, aiding the user in performing feasibility studies and evaluating the impact of product and assembly process changes.

PRODUCT HIGHLIGHTS

- Quickly reverse assembly trajectories
- Detect interference during simulation
- Create choreographed simulations
- Perform swept volume analysis during simulation replay
- Automatically generate an exploded assembly state
- Generate animations of assembly simulations



Create interference-free product assembly and disassembly trajectories.



Create and validate the assembly process in the context of the shop floor environment.

About Dassault Systèmes

Dassault Systèmes, the **3D**EXPERIENCE 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 150,000 customers of all sizes, in all industries, in more than 80 countries. For more information, visit www.3ds.com.

WWW.3DS.COM/DELMIA