I-DEAS® Freeform Modeler

best-in-class, freeform surface modeling technology

I-DEAS Freeform Modeler provides application-driven solutions in the areas of freeform product design, rapid surfacing, high-quality surfacing, reverse engineering, computer aided verification, polygonal modeling, rapid prototyping, class-1 surfacing and surface healing. It enables customers to design, accurately build, and fully inspect high-quality, freeform shaped products in less time.

I-DEAS Freeform Modeler is a powerful and intuitive surface creation tool for direct creation of freeform surfaces from curves, surfaces, or measured data. The flexible design environment supports both Bezier and Nurbs surface patch layout. Dynamic surface modification tools allow design changes to be explored interactively to immediately visualize the aesthetic and engineering implications of the design. Design, engineering and manufacturing criteria are respected throughout the surfacing process enabling true "capture" of the original design intent.

I-DEAS Freeform Modeler's creation tools offer a mechanism for developing anything from rapid and high-quality surfacing, including the high accuracy and smoothness of class-1 surface quality. Efficient continuity management tools maintain surface-to-surface transitions up to curvature. This eliminates tedious manual work while maintaining the natural, creative workflow. Complementing the suite of surface design tools are polygonal modeling and modification and basic mold design capabilities.

Real-time diagnostic tools provide full analysis of the quality of geometry for manufacture prior to tooling. These tools are instrumental in identifying surface curvature and highlights used to detect surface flaws, deviations and imperfections. Additionally, I-DEAS Freeform Modeler's validation tools include checking for machining capability, parting lines and surface gaps, to identify design flaws before data is released to downstream processes.

Linking the world of flexible freeform design and styling with proven part design and data management capabilities is achieved through the "I-DEAS Freeform Surface Feature" which provides a new level of integration with I-DEAS. This provides the complete solution that ties the physical world with the electronic math model insuring that design intent is maintained throughout the entire process.

I-DEAS Freeform Modeler addresses the specific needs of surface designers, including applications for automotive interiors/exteriors, product design and aerospace. Around the world, designers have used I-DEAS FreeForm Modeler to produce everything from laptop computers, children's toys, cellular phones and shoes to jet planes, motorcycles and the latest high-tech automotive designs.

Prerequisite
None

For More Information
For more information, contact your local SDRC representative or call 1-800-848-7372.