

I-DEAS® Data Translator, Pro/ENGINEER Solids to I-DEAS

for exchanging data between Pro/ENGINEER and I-DEAS®

This I-DEAS® Data Translator software is used to transfer solid models and assemblies from Pro/ENGINEER to I-DEAS. The translator directly accesses Pro/ENGINEER part geometry in the Pro/ENGINEER database and writes an ASCII neutral file that can be moved to the I-DEAS environment.

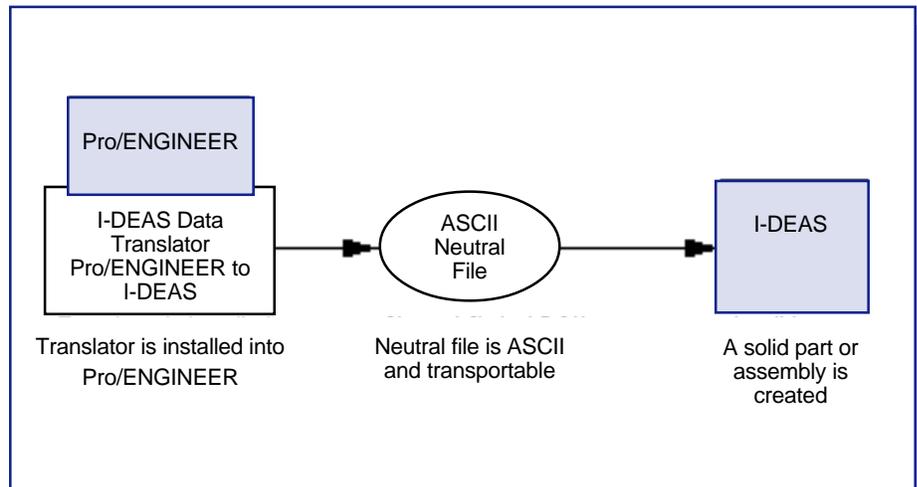
Practical Usage

Solids read into I-DEAS software are complete and ready to be used for various purposes. They are ideal for use in simulation, allowing for meshing of the volumes or surfaces or placing boundary conditions on the geometry. They can also be effectively used in I-DEAS. Such operations as sketch-in-place and joining or cutting new features are possible with the newly created solid. Assemblies, subassemblies, and all of their related parts are also translated.

User Interaction

The translator is written with the Pro/DEVELOP tools and is installed in the Pro/ENGINEER environment. The user must have a valid license of Pro/ENGINEER, but does not need Pro/DEVELOP to execute the translator. To the user, the translator appears as a new menu pick in Pro/ENGINEER under either "Part mode or Assembly mode, Interface: to_I-DEAS."

Upon execution, the translator provides the user with information about the quality of the Pro/ENGINEER model, such as maximum gap and minimum length of edges in the model. The model can be stitched into a valid solid when read in, or it can be read in as a non-stitched group of entities and stitched late within I-DEAS. The translator has some internal capabilities for cleaning the model to meet I-DEAS software standards. It also produces a log file with a listing of all entities written by the translator. An ASCII neutral file is produced which can be moved to the I-DEAS environment, if necessary. Once in I-DEAS, the solid can be modified by adding new features.



The flow of data from Pro/ENGINEER to I-DEAS software.

Technical Specifications

- I-DEAS is not required.
- Pro/DEVELOP is not required.
- Translator must be installed with Pro/ENGINEER.
- Supports Pro/ENGINEER manifold solid parts; previous versions should be read into the current version.
- Parts must be able to completely Regen in Pro/ENGINEER.
- Processing reports include Pro/ENGINEER model quality, (maximum gap and minimum edge length) and entity quantities.
- One-way, into I-DEAS.

Prerequisites

- Core Master Modeler
- or-
- I-DEAS Product Design Package
- or-
- I-DEAS Artisan™ Package
- and-
- Pro/ENGINEER

For More Information

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