I-DEAS® Data Translator, AutoCAD to/from I-DEAS Master Drafting™

for directly exchanging data between I-DEAS® Drafting and AutoCAD

I-DEAS® Master Drafting™ to/from AutoCAD DWG Format

To directly move 2D drafting and design data between AutoCAD and I-DEAS, SDRC offers data translator software that exchanges data between the native AutoCAD DWG database format and I-DEAS Master Drafting™. The I-DEAS Data Translator AutoCAD to/from I-DEAS Master Drafting provides accurate, bi-directional data translation between the native AutoCAD DWG format and I-DEAS Master Drafting software.
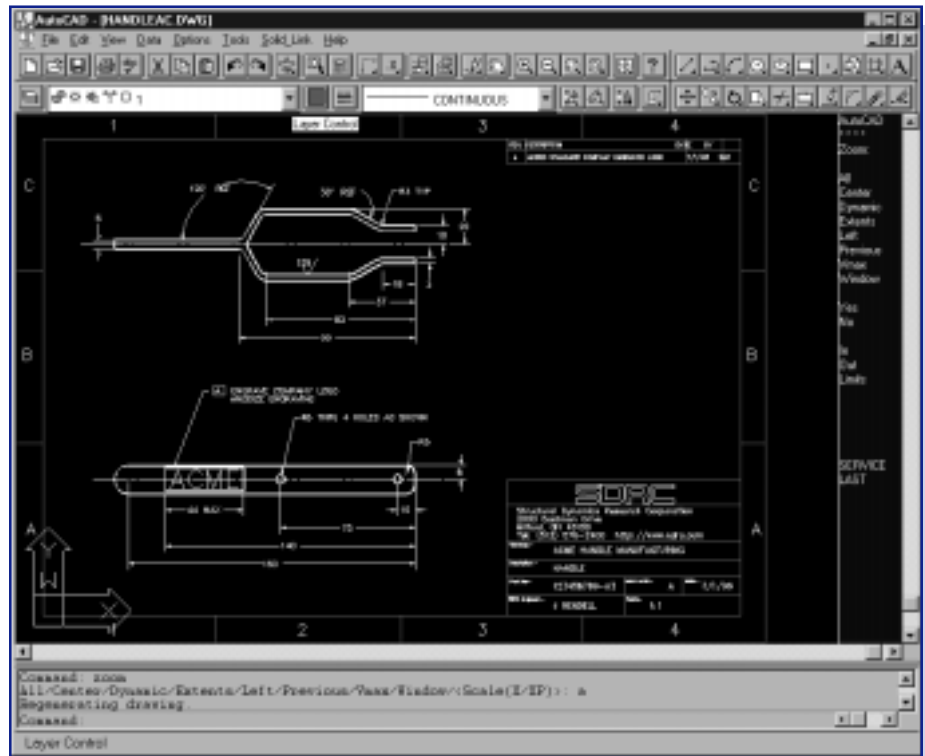
Translator Applications

The I-DEAS Data Translator, AutoCAD to/from I-DEAS Master Drafting lets I-DEAS users directly exchange data with outside vendors, subcontractors, or prime contractors who use AutoCAD.

•Migration directly from AutoCAD to the engineering power of I-DEAS. Here the translator can be used to migrate all or a portion of a company's drafting requirements from AutoCAD to I-DEAS Master Drafting. With I-DEAS drafting, these companies will be able to enjoy the productivity benefits of the Dynamic Navigator™, associative annotation, related projectable views, variational geometry, and many other advanced drafting features.

•Growth to solids-based, team-oriented mechanical design automation. Here the translator can be used as an initial step in the evolution from an existing AutoCAD installation to the engineering solution provided by I-DEAS. In the initial step, existing 2D-based drafting and design data is translated to I-DEAS Master Drafting. Once translated, the I-DEAS Master Drafting user has the opportunity to use the 2D data originating from AutoCAD to create solid models in the I-DEAS Master Modeler™ software.

•Complement an existing AutoCAD installation with I-DEAS for any combination of advanced drafting productivity, solids-based design, analysis, optimization, or other team-oriented engineering capabilities offered by I-DEAS.

Original AutoCAD drawing.

Exchange

The I-DEAS Data Translator, AutoCAD to/from I-DEAS Master Drafting accurately exchanges data between the native 2D AutoCAD DWG database and the I-DEAS Master Drafting database. The translator creates complete drawings, handling such special AutoCAD entities as Blocks, Layers, and Inserts. The translator supports the following AutoCAD entities:

- •Arcs
- •Attdef
- •Circles
- •Dimensions
- •Donuts
- •Insert
- •Leaders
- •Ltypes
- •Mline
- •Points
- •Rays
- •Solids
- •Text
- •Traces
- •Viewport
- •Attrib
- •Blocks
- •Conics
- •DimStyle
- •Ellipses
- •Layers
- •Lines
- •Lwpolylines
- •Mtext
- •Polylines
- •Seqend
- •Splines
- •Tolerance
- •Vertex
- •Xlines

AutoCAD Releases Supported

The I-DEAS Data Translator, AutoCAD to/from I-DEAS Master Drafting software supports data exchange with AutoCAD Release 12, 13, 14 and 2000 files.

User Options Available During Processing

The I-DEAS Data Translator, AutoCAD to/from I-DEAS Master Drafting provides user control over how certain entities are translated. These user-specified translation options, when translating from AutoCAD to I-DEAS Master Drafting include:
•Automatically make frozen (hidden) layers thawed (visible).
•Adjust text width.
•Define dimensions as either symbols or dimensions.
•Assign default colors for dimensions and symbols.
•Assign default layers for dimensions and symbols.
•Read and create dimension "default" points.
•Automatically scale geometry to fit the paper size.
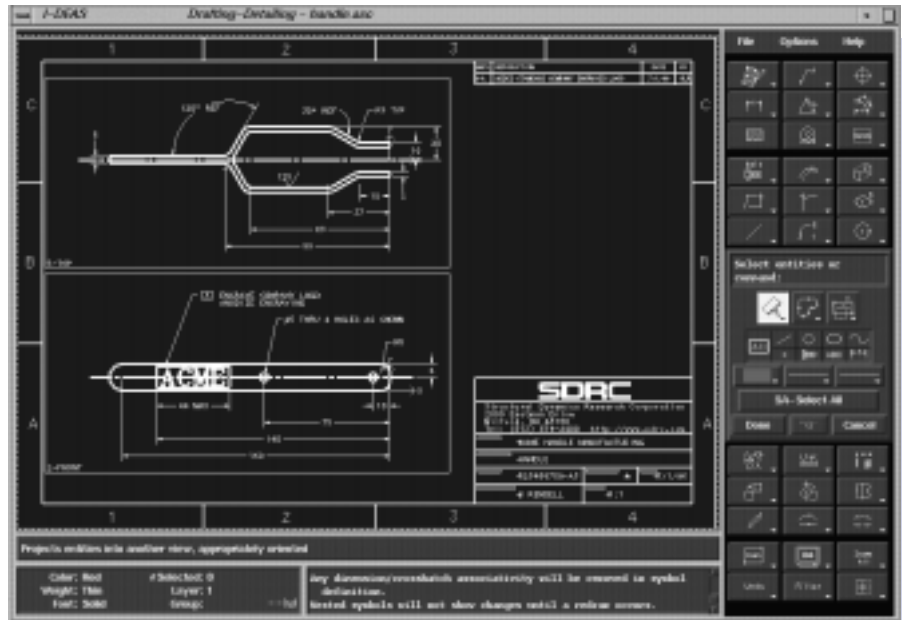•Ignore certain line types.

Diagnostics and other translation information is reported by the I-DEAS Data Translator AutoCAD to/from I-DEAS Master Drafting.
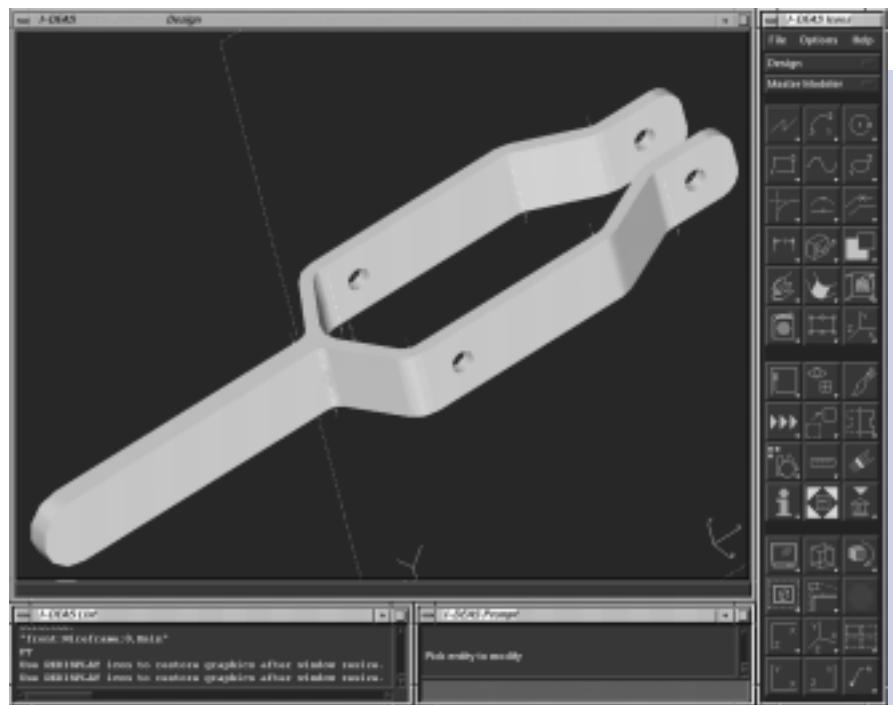
Prerequisite

I-DEAS Master Drafting

For More Information

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

After translation into I-DEAS Master Drafting software (above).

In this case, the AutoCAD data was used to create the solid shown above with the I-DEAS Master Modeler software.