



*TransMagic simplifies the transfer of 3D CAD data between applications, improves the quality of 3D models files and significantly reduces manufacturing costs.*

## Making 3D CAD Interoperability EASY

### Revolutionizing CAD Data Reusability

#### Challenge

- Multiple 3D Applications
- CAD File Incompatibility
- Reworking Designs
- Production Delays
- Lost Data

#### Solution

- Interoperability Software
- Multi-CAD File Support
- Automated Geometry Repair
- Scalable Product Line
- Protected Investment Strategy

#### Benefits

- Reduce Job Costs
- No CAD Software Required
- Same Day Implementation
- High Quality Performance
- Data Security
- Fast Return on Investment

At **TransMagic** our primary focus is developing high quality multi-CAD interoperability solutions. Regardless of your position in the manufacturing industry, most likely 3D CAD data plays a critical role. The design to manufacturing process commonly utilizes ten or more different 3D applications. The ability to reuse CAD data, from any source, can have a positive impact on sales, delivery schedules and ultimately profitability. With TransMagic you can efficiently move CAD data to any downstream application. TransMagic provides the easiest and most reliable way for manufacturing professionals to reuse 3D data in any CAD/CAM/CAE application.

#### Why Not Just Use IGES or STEP?

3D modeling software is popular because design data can sometimes be reused in other stages of the manufacturing process. However, these software products have proprietary file formats which are incompatible with each other. Many people rely on IGES or STEP files to get 3D solid models from one application into another. This practice adds considerable delays as these "standard" formats typically require extensive rework to be usable. File translation roadblocks can cause project delays, tie up valuable engineering resources and increase costs.

*"TransMagic saves us a lot of money. We don't have to buy licenses for a lot of different CAD software."*

*C. Diltz, Grede Foundries, Inc.*

#### Maximum Data Exchange Efficiency

TransMagic reads proprietary CAD files in their native formats. Powerful Repair tools condition models to optimize data exchange quality. This new way of working with 3D CAD files results in much greater efficiency and higher data integrity, virtually eliminating time consuming rework. TransMagic wastes no time. The intuitive user interface allows engineers and even non-CAD experts to start file translation projects within minutes of installation. Our customers claim that TransMagic has saved them hours, days and even weeks on all kinds of manufacturing projects.

*"On one project TransMagic saved me hundreds of hours!"*

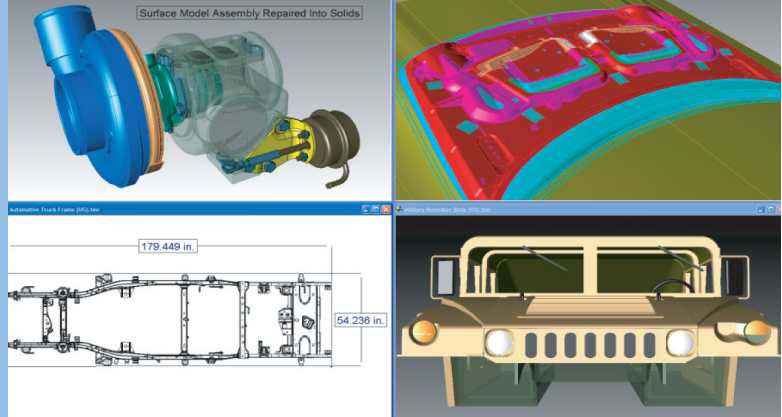
*R. Sanderson,  
Texas Tool Makers, Inc.*



# The Easiest Way to Translate 3D CAD Files

## TransMagic Value Proposition

- High Translation Quality
- Automated Geometry Repair
- Rich Viewing Options
- Frequent CAD Updates
- Scalable
- Easy to Use



## TransMagic... Innovation - Scalability - Flexibility

### No CAD Software Required!

TransMagic products offer an independent bridge between all 3D CAD/CAM/CAE systems. This means there is no need to purchase and maintain additional CAD programs or high cost licenses that rarely get used. TransMagic routinely updates its software to ensure it keeps pace with current CAD software releases. It's no mystery that TransMagic provides an outstanding return on investment.

### State of the Art File Repair Technology

Just as all CAD software products have different file types, they also have very different ways of representing 3D geometry. When models are opened in other applications these differences show up as gaps, missing surfaces or surfaces that don't fit the part; clearly not the original design intent. These files could become unusable surface models instead of "solids."

TransMagic's unique Repair technology, quickly and easily makes adjustments to condition models and eliminates those problems before files are translated. Since this problem is so wide spread and can cost companies so much lost time and money, TransMagic includes Automated Geometry Repair technology with every product.

### Rapid Return of Investment

Manufacturing engineers and designers who use TransMagic can increase their productivity and save their organizations valuable time and money. With an intuitive interface, automated repair functions and universal compatibility, TransMagic provides its customers with fast, easy to use, high quality 3D CAD translations.

*"TransMagic gets files into CATIA where other software fails and it cleans up the geometry."*

*B. Sprygada, BorgWarner ETS*

### Scalability and Protected Investment

Companies can choose value priced suites or purchase entry level products and add more capabilities at a later date. These scalable options allow customers to buy what they need and upgrade, if necessary, thereby protecting their initial investment.

### Who Uses TransMagic?

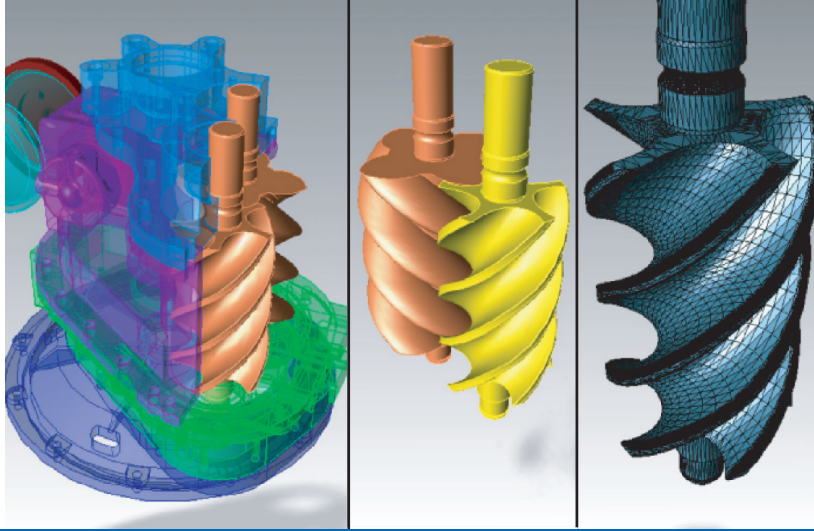
TransMagic products are designed for professionals working in a wide variety of manufacturing industries including automotive, aerospace, government, electronics and consumer products. Tool and die makers, mold makers, mechanical engineers and designers; virtually all manufacturing professionals benefit from using TransMagic.

TransMagic customers include Chrysler, The Boeing Company, Honda, NASA, Northrop Grumman, Lockheed Martin and Caterpillar among many others. Regardless of the business you're in, TransMagic

*"TransMagic? I couldn't do my job without it."*

*C. Diltz, Grede Foundries, Inc.*

eliminates the frustration that comes from not being able to open or use multiple CAD file types.



## TransMagic Product Line

# Multi-CAD Interoperability Suites

## TransMagic... Products designed to serve individuals, workgroups or entire companies

All TransMagic Suites offer 3D CAD file translation, geometry repair, file viewing, volume, measurement, and mass properties in a feature rich and easy-to-use Windows interface. TransMagic Suites are available in standalone Desktop products and networked Workgroup configurations. In addition to high quality, world-class CAD file translation, each TransMagic Suite provides valuable technology and features for File Repair, Viewing, and real-time Internet Collaboration.

*"It's Powerful. TransMagic can export a single component out of an assembly. It's a cheap way to read lots of data cost effectively."*  
T. Coffey, SCA

**TransMagic EXPERT** provides the most complete support for 3D design files in one standalone application. TransMagic EXPERT is the perfect tool for companies working in multi-CAD environments or manufacturing supply chains. It includes the ability to read and write high fidelity CATIA V5 files. TransMagic EXPERT is the perfect tool for file migration between multiple CAD systems including CATIA V4 and V5.

**TransMagic ADVANTAGE** supports a broad range of CAD file types and includes Advanced Geometry Repair tools that find and cover holes or replace bad surfaces.

**TransMagic ELEMENT** offers high quality access to most major CAD file types including Pro/E, Unigraphics, NX, Inventor and SolidWorks, plus the versatility of data exchange between hundreds of applications using the robust ACIS and Parasolid based formats.

**TransMagic BASIC** provides a broad base of 3D CAD translators for industry standard file types. TransMagic BASIC can tackle a wide variety of interoperability challenges and data exchange needs. It is excellent for working with ACIS and Parasolid based applications.

**TransMagic I-STEP** is an introductory product for companies that typically work with IGES and STEP files and who may need support for one or two additional CAD formats which can be added as needed.

**TransMagic BATCH** is an optional product that can be added to any TransMagic Suite. BATCH provides high-speed unattended file translation for large projects or file migration.

**TransMagic JT Add On** supports JT data files with visualization or B-Rep information. JT files with B-Rep information can be translated to other CAD formats. All versions of JT from 6.4 to 9.0 are supported for reading and writing.

**TransMagic MagicSURFACE** extends the file repair capability of TransMagic. It locates holes in models and covers them with continuous surfaces that close geometry into solid models. MagicSURFACE is standard with TransMagic ADVANTAGE and EXPERT or is available as an add-on to other TransMagic Suites.

**PMI** (Product Manufacturing Information, also known as GD&T or FD&T) provides access to product dimensions, tolerances, surface finishes and more. The PMI feature is standard with TransMagic EXPERT or is available as an add-on to other TransMagic Suites. TransMagic supports PMI data in CATIA V5 files.

### Plug-in Translators for Autodesk Inventor

TransMagic offers Plug-in Translators that can be installed directly into Autodesk Inventor. These Plug-in Translators expand the 'file open' and 'file save' functions within Inventor. TransMagic Plug-in Translators include our signature Geometry Repair system to automatically close gaps and create solid models.

# TransMagic Product Guide

TransMagic Products	EXPERT	ADVANTAGE	ELEMENT	BASIC	I-STEP	VIEW
<b>TRANSLATORS</b>						
CATIA V5 READ	X	OPT	OPT	OPT	OPT	OPT
CATIA V5 WRITE	X	OPT	OPT	OPT	OPT	
CATIA V4 READ	X	X	OPT	OPT	OPT	X
CATIA V4 WRITE	X	X	OPT	OPT	OPT	
Pro/E READ	X	X	X	OPT	OPT	X
NX/Unigraphics READ	X	X	X	OPT	OPT	X
Inventor READ	X	X	X	OPT	OPT	X
SolidWorks READ	X	X	X	OPT	OPT	X
Parasolid READ	X	X	X	X		X
Parasolid WRITE	X	X	X	X		
ACIS READ	X	X	X	X		X
ACIS WRITE	X	X	X	X		
IGES READ	X	X	X	X	X	X
IGES WRITE	X	X	X	X	X	
STEP READ	X	X	X	X	X	X
STEP WRITE	X	X	X	X	X	
STL VIEW	X	X	X	X	X	X
STL WRITE	X	X	X	X	X	
HSF VIEW	X	X	X	X	X	X
HSF WRITE	X	X	X	X		
NGRAIN WRITE	X	X	X	X	X	
JT READ/WRITE	OPT	OPT	OPT	OPT	OPT	
<b>FEATURES</b>						
CATIA V4 to V5 Migration	X					
PMI <sup>1</sup>	X	X	OPT	OPT	OPT	OPT
MagicSURFACE	X	X	OPT	OPT	OPT	
NON-UNIFORM SCALING <sup>2</sup>	X	X	OPT	OPT	OPT	
Interface for Inventor	X	X	X			
LITE/FULL REPAIR <sup>3</sup>	X	X	X	X	X	X
COLLABORATION	X	X	X	X	X	X
MASS PROPERTIES <sup>4</sup>	X	X	X	X	X	X
SCALING	X	X	X	X	X	X

**X = Included    OPT = Optional**

<sup>1</sup> **PMI:** Product Manufacturing Information or GD&T or FD&T. Includes dimensions, tolerances, surface finishes, etc.

<sup>2</sup> **Non-Uniform Scaling:** Advanced control of differential scaling along X, Y, & Z axes

<sup>3</sup> **Lite and Full Repair:** Automated Geometry Repair functions to close gaps, adjust tolerances, repair surfaces

<sup>4</sup> **Mass Properties:** Volume, Mass, Density, Center of Mass, Inertia Properties and Precision Settings

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