visual Components

POLYTRANS ADD-ON

THE **POLYTRANS ADD-ON** PROVIDES AN INTERFACE TO OKINO'S POLYTRANS CAD IMPORT/EXPORT SOFTWARE SO THAT MANY DIFFERENT CAD DATA FORMATS CAN BE READ INTO VISUAL COMPONENTS SOFTWARE.

- **IMPORT STANDARD FILE FORMATS (IGES, VRML, STEP)**
- **IMPORT SOLIDWORKS, SOLID EDGE AND AUTODESK FILES**
- **GEOMETRY SIMPLIFICTION TOOLS**
- **POLYTRANS SOFTWARE LICENSE INLCUDED**

POLYTRANS ADD-ON

- SHIPS WITH A POLYTRANS LICENCE WITH CAD/PACK AND GRANITE/PACK OPTIONS
- AUTOMATIC POLYGON PROCESSING, TYPICAL REDUCTION IS 80%, WITH GOOD RESULTS UP TO 95%
- EXTENSIVE IMPORT/ EXPORT OPTION FUNCTIONALITY
- IGES (SURFACED DATA). ROBUST IMPORTER THAT RETAINS PURE TRIMMED NURBS.

EXTENSIVE CAD SUPPORT
NEUTRAL AND NATIVE CAD FILE FORMAT SUPPORT

THE POLYTRANS INTERFACE READS MULTIPLE FILE FORMATS DIRECTLY INTO VISUAL COMPONENTS SOFTWARE THROUGH A SEAMLESS INTERFACE. POLYGON REDUCTION TOOLS MAKE LIGHT WORK OF GENERATING VISUALLY ACCURATE SIMULATION MODELS GOOD FOR SALES LAYOUTS AND PLANT OPTIMIZATION TASKS.

The Add-on ships with one original Polytrans license and two additional CAD support packs from Okino:

- **CAD/Pack** with Autodesk Inventor importer, DWG importer, IGES 5.3 import and export (surface-based IGES (144/142/128); developed and maintained actively since 1988 by Robert Lansdale of Okino), Solid Edge import and SolidWorks import
- **Granite/Pack**. PTC Granite importer licenses: ACIS® SAT (up to v7), IGES (solids), Parasolid®, ProE® native parts & assemblies, Pro/DESKTOP®, STEP & VDA-FS. Also includes Okino surface-based IGES importer as a complement to the solids-based PTC IGES importer.

Okino has actively integrated the PTC Granite interoperability kernel directly into PolyTrans to provide extensive "3D solids" model import support to its already extensive line up of 3D CAD and non-CAD file formats. This core technology adds the strong native file import support for ACIS® SAT®, IGES (from solids), PTC Pro/Desktop®, PTC Pro/ENGINEER®, Parasolid®, STEP and VDA-FS.

The internal rendering engine preserves all rendering-related information during file translation, including geometry smoothing (normals), bump mapping (U/V tangents), (u,v) texture coordinates, vertex colors and vertex opacity/transparency data, where applicable. The rendering engine is also used internally to perform exact translation of all texture mapping information, including bitmap filenames, scaling, offsetting and all texture projection methods.

CAD Pack	**Importer Extensions**
Autodesk Inventor	.iam (assemblies),.ipt (parts)
Autodesk DWG	.dwg, .dxf
IGES	.iges, .igs
Solid Edge	.asm (assemblies),.prt (parts)
SolidWorks	.sldasm (assemblies), .sldprt (parts)

Granite Pack	**Importer Extensions**
STEP	.stp, .step, .ste
VDA-FS	.vda, .vdafs
ACIS SAT	.sat
Pro/DESKTOP	.des
Granite "g-plugs"	.g
PTC IGES (solids)	.igs or .iges
Pro/Engineer native	.asm, .prt, .neu
Parasolid	.xmt, .xmt_txt, .xmt_bin, .xmt_neu, .x_t, .x_b, .x_n
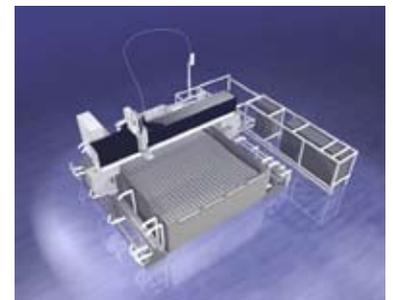
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