

CAD IMPORT AND FEATURES

Creating and Manipulating Geometries

	CATIA V5 Import Module	PRO/E Import Module	VDA-FS Import Module	CATIA V4 Import Module	CAD Import Module	COMSOL Multiphysics®
Free Drawing in 2D (Ellipses, Rectangles, Points, Lines and Bezier Curves)	•					
Free Drawing in 3D (Blocks, Cones, Cylinders, Ellipsoids, Spheres, Points and Lines)	•					
Extruding, Revolving and Embedding 2D Faces to 3D Objects	•					
Creating Arrays of Objects	•					
Create Composite Objects using Boolean Algebra	•					
Coerce to Points, Curves and Solids in 2D	•					
Coerce to Points, Curves, Faces and Solids in 3D	•					

Importing, Repairing and Exporting Geometries

	CATIA V5 Import Module	PRO/E Import Module	VDA-FS Import Module	CATIA V4 Import Module	CAD Import Module	COMSOL Multiphysics®
Import NASTRAN® Mesh—Translate them to Geometry Objects	•					
Import MRI, CT and microCT data via Mimics®	•					
Import MRI, CT and microCT data via Simpleware *ScanFE—Translate them to Geometry Objects	•					
Import STL (.stl) Files	•					
Import VRML (.wrl) Files	•					
Import 2D DXF (.dxf) Files	•					
Import GDS (.gds) Files ***	•					
Import STEP (.stp) Files		•				
Import IGES (.igs) Files		•				
Import ACIS®/SAT® (.sat, .sav, .asab, .asat) Files		•				
ODB++(X) Import and 3D Modeling ***	•					
NETEX-G Import and 3D Modeling ***	•					
Import Parasolid® (.x_t, .x_b) Files		•				
Bidirectional Interface with SolidWorks®		•				
Bidirectional Interface with Autodesk® Inventor®		•				
Geometric parametric sweeps ****		•				
Import* CATIA® V4 (.model) Files			•			
Import* CATIA® V5 (.catpart, .catProduct) Files				•		
Import* Pro/E (.prt, .asm) Files					•	
Import* VDA-FS (.vda) Files						•
Repair CAD-imported Objects		•				
Knit Faces and Fill Gaps		•				
Defeature (remove) Fillets		•				
Defeature (remove) Small Faces		•				
Defeature (remove) Sliver Faces		•				
Defeature (remove) Spikes		•				
Defeature (remove) Short Edges		•				
Conversion of Imported Geometries to the Parasolid File Format		•				
Export** of Converted and Manipulated Parasolid Geometries		•				

\* Requires the CAD Import Module  
 \*\* Only for file formats that are supported by the CAD Import Module  
 \*\*\* Only in MEMS, RF and AC/DC Module  
 \*\*\*\* Requires SolidWorks® and/or Autodesk® Inventor®

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