3D eXchanger for AutoCAD®

CADMATIC 3D eXchanger for AutoCAD convert models of equipment and modules between CADMATIC and AutoCad.

The 3D eXhanger for AutoCAD converts AutoCAD solid models from and into CADMATIC reference models. This allows AutoCAD users to use their 3D models in CADMATIC Plant design projects. There are a large number of file transfer plugins to AutoCAD, this enables compatibility with different formats, transfers of 3D models from and to other applications such as Solidworks, AutoDesk Inventor and Catia.
eXchangers for AutoCAD have traditionally played a key role in cases where models that were originally created in mechanical CAD needed to be imported and reused in CADMATIC. The same goes for exporting CADMATIC native models to the AutoCAD format. Since AutoCAD® imports and exports many mechanical CAD formats, eXchanger for AutoCAD is used as a bridge to CADMATIC.

From CADMATIC to AutoCAD

All the converted objects are native AutoCAD® objects, which usually are AutoCAD solid objects with few exceptions. Conversion of the model can also extract few attributes from the 3DC file and attach them to the corresponding AutoCAD objects. For example CADMATIC system ids are used for naming AutoCAD® layers. This feature makes the conversion result more structured and easier to browse. Basically the conversion result is exactly the same than the original model was.

From AutoCAD to CADMATIC

At the conversion you can set mapping rules for layers, solids, meshes, circles, accuracy and other options. Following primitives could be converted:

> 3D and 2D solids, Faces, Body objects (ACIS SOLID), Arcs (normal and extruded) -> Face Sets
> Circles (normal and extruded) -> Cylinders or Face Sets
> 3D and 2D Polylines (not extruded), Lines (not extruded) -> Polylines
> Polylines with thickness, Polygon Meshes, Face Meshes, Surface, Traces, Regions -> Face Sets
> Splines, Ellipses -> PolyLines

We offer users more alternatives in using mechanical CAD models by the CADMATIC eXchanger for PolyTrans®. Users can now also take advantage of Okino conversion modules covering all of the most popular formats designed to handle the largest assemblies. Other possibilities include IFC and JT interfaces.

CADMATIC 3D eXchanger for AutoCAD support AutoCAD versions 2010-2016, 32 or 64 bit.

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