

# progeCAD 2020

The best DWG CAD, the proven AutoCAD® replacement



progeSOFT



**progeCAD 2020**, the 2D/3D DWG/DXF-native CAD platform offering seamless compatibility with AutoCAD® DWG versions 2.5 – 2020, is the perfect alternative CAD for any budget. progeCAD 2020 sports the intuitive Classic/Ribbon Interface with familiar commands and perpetual licensing solutions. progeCAD is highly efficient comprising all the basic CAD functionality as well as many exclusive extra tools to facilitate the drafting process and drawings interchange, for instance, with Mechanical (STEP/IGES file formats support) and BIM (rvt/rfa, IFC file formats support) applications.

## WHAT'S NEW

### Tool Palettes for Blocks, Hatches and frequently used Commands

Organize blocks, hatches, and custom tools in a tabbed window. Easily customizable by Drag & Drop. Options and settings are accessible from shortcut menus. The ready-to-use Palettes for commands (Draw, Modify, Annotations, Utilities etc.) and blocks (2D Architectural, Electrical, Mechanic etc.).

### Digital signatures to DWG files

The digital signature certifies the author of a file and indicates whether the file has been altered since the digital signature was applied. Recipients of drawings get reliable information about the author of a drawing. Owners have reliable verification that a drawing has not been modified.

### Construction Line

This is a special type of the infinite line that is typically used when quick drafting techniques are required. The construction line is a line through a given point, oriented at a specified angle in the three-dimensional space and extending to infinity in both directions.

### Support for BIM file types

Import/attach IFC and Autodesk® Revit® files (.rvt/.rfa, IFC). These file types contain building and construction data. Once the file is attached, you can explode it, snap to it and use the RVTPANE command to open the Categories pane for visibility control.

### Formulas in Tables

Table cells can contain formulas that do calculations related to the values in other table cells.

### Block Editor (\_BEDIT)

The Block Editor offers a special authoring area to enable free drawing and editing of blocks geometry.

### ADDSELECTED

The creation of a new object of the same type and general properties (Layer, Color, Linetype etc.) of a selected object, yet with different geometric values.

# ADVANCED FEATURES

## PERPETUAL LICENSE

NO ANNUAL FEES

### 3D EasyArch Plugin

The plugin for parametric architectural design to boost productivity creating floor plans and buildings. The plugin works in 2D and 3D, generates parametric walls, doors, windows, stairs just in few clicks, also provides a library of dynamic blocks for internal design.

### STEP-IGES IMPORT/EXPORT

Support for widely used STEP and IGES files to exchange 2D/3D CAD data. progeCAD also import/export Maya .RGT, Wavefront .OBJ and import 3D Studio .3DS and LightWave .LWO.

### PDF to DWG Converter

The module allows to convert PDF files into editable DWG CAD drawings with layers support. Lines, shapes, texts are editable with progeCAD like CAD original objects.

### ARTISAN Render Engine

This is a quick way to create realistic images of your models, using scenes, preset materials, light configurations and the possibility to add user lights and materials.

### 3D PDF Export

The 3D PDF conversion module to export DWG/DXF drawings to 3D PDF files. Creation of Adobe PDF standard files with embedded dynamic 3D content. Smart collaboration with design professionals and with users who do not deal with CAD software. To open 3D PDF files, you simply need the free Adobe® Reader®/Acrobat Reader DC software.

### 3D and 2D Civil Features

Creation of TIN surfaces from Point Clouds - Topographic Sections - Slopes.

### Surveying, GIS and Civil Features

Image Georeferencing - ECW, MrSID and Jpeg 2000 support - ESRI / SHAPE Import.

### Blocks Library Manager

progeCAD integrates the module for blocks management with more than 20.000 2D/3D ready-to-use blocks for architecture (interior/exterior), ANSI-ISO and DIN-ISO mechanics, steel profiles, IEC and ANSI electrical symbols, 3D furniture (bathroom, kitchen, bedroom, living-room, office), hydraulic and pneumatic symbols. The iCADLib module also allows to handle user libraries of DWG and SAT blocks.

### Point Clouds

Point cloud files help the design process by providing real-world context where you can recreate the referenced objects. Along with the standard ReCap® .rcp/.rcs file formats, progeCAD supports such Point Cloud formats as PCG, ISD, XYZ, PLY and LAS.

### progeCAD Express Tools

The set of tools mainly grouped under the Express Tools menu which extend progeCAD functionality enabling the user to increase productivity through easy, fast and efficient performance of complex multistep CAD operations.

### Vectorizer

The Raster to Vector add-on can be used to quickly convert images or print-out and scanned drawings into vector representation. The module uploads most common image formats, performs line thinning, detects edges, creates black-and-white vectors out of processed lines and outputs the result in the DXF CAD file format.

### DWG - DXF File Sharing

Data sharing in DWG/DXF file formats with colleagues and clients who use AutoCAD® or other DWG-compatible CAD programs. The DWG-native format ensures high level of compatibility with AutoCAD® DWG files up to v2020.