CIVIL DESIGNER CAD Pro

In addition to the powerful 3D rendering capabilities that you need for your project visualisation and presentation purposes, the CAD module provides the full drawing functionality contained in AllyCAD Professional for intensive draughting applications. It includes the surveying, structural, mechanical and architectural toolkits, which simplify many time-consuming procedures.

Handling Reality Mesh Data

Use the import and rendering of reality mesh data to create high resolution 3D models from photos or point clouds.

New Block Editor

The Block Editor allows you to edit the CAD-entities in the block definitions in your drawing, displaying

the selected block in a separate drawing window. Once you have finished editing the block, you can simply close the window or use the Save option.

Rendered Fly Through and Design Verification

The 3D Render View has easy to use navigation (zoom in/out, pan and rotate) and a drive or fly through path, height, speed and view radius can be specified both above ground or at a sub-surface level.



Expand Detail Function with Layer Magnification

The 'Expand Detail' function from previous AllyCAD versions has been implemented. Dimension linear scale and layer magnification values are adjusted for the expanded details.

Shape File Export Includes Arcs, Circles, Inserts & X-Refs

ArcView Shape file export now includes arcs and circles (exported as exploded lines), as well the contents of any inserted blocks or XRefs in the drawing.

Import Shape Files with Lat-Long Coordinates

ArcView Shape files in geographical coordinates can now be converted to survey coordinates during import. Importing also has an option to create an Access MDB file (requires the relevant ADO database driver) containing the data associated with the Shape file. The data link can be manipulated to produce labels based on the contents of the database table.

Convert Single-Line to Multi-Line Text

The new 'SText to MText' function allows you to indicate one or more single-line text entities, which are then joined together into one multi-line text entity.

Text Styles

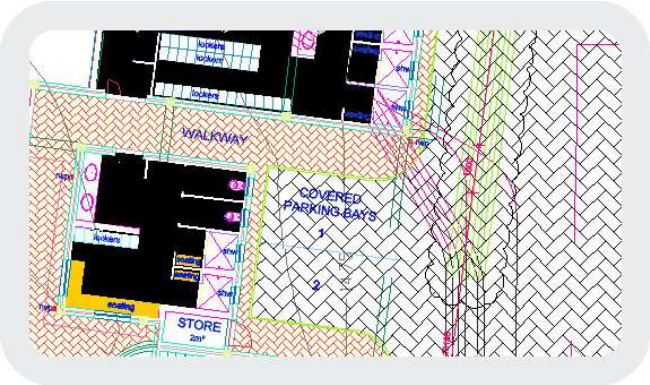
Text styles allow you to apply multiple text attributes to one or more text items. Simply edit the associated text style or apply a different text style.

Multiple Arrows with One Text Item or Block

The 'MLeader' entity consists of one or more leader lines attached to a note. This allows the note, which can be a text label or a block, to point to multiple items of interest in your drawing. Each leader line can have multiple vertices and can be smoothed. MLeader Styles can be used to standardise the appearance of your MLeaders.

Tolerance Editor

The Tolerance Editor allows you to annotate your drawing with tolerances and include finishing symbols.



OLE Objects

The new OLE function allows you to embed other objects, such as documents, spreadsheets and illustrations, in your drawing. To edit these objects, simply double-click to activate the host application for the object.

Advanced Selection Filter

A new and very powerful Advanced Selection Filter has been added. In addition, the legacy selection filter has also been greatly streamlined for ease of use.

Multiline Text Editor

Define a box that will contain a text paragraph with multiple lines of text. You can apply formatting to parts of the text using controls similar to standard word processing systems.

Enhanced Symbols (Blocks)

An extensive symbol library (blocks) is supplied. The new Block Manager allows you to visually browse symbol files and drawings for blocks.

Objects, Surfaces & Rendering

We have added full 3D with hidden line removal, rendering with light sources and shading, and perspective views. You can define your own lighting; and view your design in multiple named viewports or in different perspective views. You can also work on any view (top/side/iso) at the same time.

Draw Text Aligned to an Existing Entity

The 'Draw Text' functions allows you to align the rotation and position of the text you are drawing to existing text or lines in the drawing, thereby avoiding the hassle of manually aligning/rotating the text after adding it to the drawing.

Set the Transparency of Entities

All entities now have a 'Transparency' property, ranging from 0 (fully opaque) to 90 (90% transparent). Entities can also have 'By Block' or 'By Layer' transparency. Transparency can be used to 'see through' solid objects so entities 'behind' the object are visible.

Graphical Editing

AllyCAD gives you easy graphical editing of all selected entities using either selection handles or nodes. This includes hatches, elliptical arcs and splines.

Database Linkage

Link drawing entities to external database records containing attributes so you can store your data in an external database and display up to date data on your drawings without editing the drawings.

New CAD Entities

In addition to the 3D entities, we have also added the following new CAD entities:

- Helix
- Arc-aligned text
- Spline
- MLeader
- Tolerance
- OLE Frame
- Ray
- Rtext
- Table
- Multiline
- Wipeout

Dynamic Updating of Production Drawings

Production drawings are dynamically updated as you change your design. If you want to create archive copies, simply use the Publish function.

BIM IFC File Export

Our Industry Foundation Classes (IFC) support allows geometric and attribute information to be customised according to the requirements of the recipient, thereby improving efficiency in any BIM workflow.

Prior to export, you can set up custom IFC files, assign the appropriate northern or southern coordinate system and specify the extents of the shared data.

Data can be allocated to one or more IFC files and can incorporate all or selected portions of the proposed infrastructure services associated with a project.

Did you know:

- We have a library of FAQ support videos for your reference: **www.civildesigner.com/videos/**
- You can book online Civil Designer training: **www.civildesigner.com/training-centre/**
- We provide introductory self-learning videos: **www.civildesigner.com/training-centre/**

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