CIVIL DESIGNER Turn

Civil Designer's Turn module provides dynamic and interactive simulation for low speed turning manoeuvres of various vehicles, including cars, trucks, articulated vehicles, trailers, commercial aircraft and forklifts, along a specified tracking path.

Turn offers easy track path definition and creation, including the calculation of the vehicle's minimum turning envelope.

Multiple Vehicle Libraries Including TRH17 Criteria

Configure the vehicle libraries as required. Libraries for TRH 17 (UK standards) design vehicles and aircraft are distributed with the program.

User Configurable Vehicles

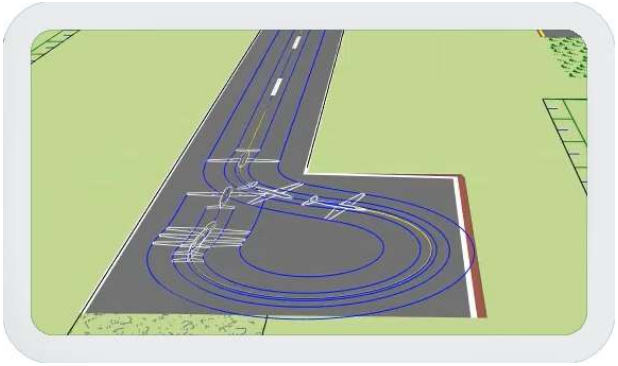
We support a full range of vehicle configurations including:

- Single unit vehicles such as passenger cars, buses, trucks and forklifts
- Trailer and semi-trailer combinations such as cars with trailers, articulated vehicles and interlinks
- Nose-steer and tail-steer aircraft

Create new libraries and add your own vehicles to the library simply by entering the dimensions for the new vehicle.

Easy Track Path Definition & Creation

Easily create a track or swept path envelope by drawing or selecting the vehicle path and then specifying a vehicle for the simulation.



Forward & Reverse Movements

Simulate forward and reverse movement, for any of the supported configurations, along a specified track path.

Define Way Points Along the Track Path

Indicate the starting position and direction of a vehicle, and then graphically indicate a series of way points. The vehicle automatically moves to the way points, conforming to its minimum steering angles. Finish off your drawings by placing this vehicle profile complete with dimensions

Works in Conjunction with Existing CAD Entities

Use a combination of CAD lines and CAD entities to specify complex tracking paths.

Cargo Point Tracking Function

Track additional points, within or beyond the vehicle's body, using the Cargo Point Tracking function. This is useful for tracking the position of cranes, side mirrors or cargo extremes along the track path.

Smallest Turning Circle Calculation

Generate minimum turning envelopes by indicating a start position and an initial direction of movement. You can then drag the entire envelope to check

critical sections of intersections, traffic circles and parking areas.

Track Path to CAD Layer with Test Vehicle Profile

Display the path of the tyres and vehicle extremities as a CAD layer when you run a simulation.

Plot Output Graphs & Data Tables

Use output graphs, which are displayed for every simulation, to determine how close the design vehicle is to any point along the path at its maximum steering angles.

Full Compatibility with DWG & Other Formats

As a founding member of the Open Design Alliance, our inside knowledge of the DWG drawing structure ensures high compatibility when loading and saving DWG and DXF drawing formats. We also support the loading of Caddie CEX, Arcview SHP, Microstation DGN and Ultimate CAD UCX files, which gives you unprecedented flexibility to move between drawings without worrying about incompatibilities and data exchange problems.

Drawing Title Block Templates (Sheet Files)

Our powerful drawing templates (sheet files) allow you to define exactly what the final production drawings should look like saving you hours of postproduction CAD editing. Use our sheet files to generate production drawings with detailed title blocks, north signs, grids, company logos, annotations, data lists, scale bars and more, so your plotting requires little, if any, CAD editing.

Sheet files allow the precise placement of all the design elements in your title block with customisable settings so you no longer have to cut and paste your design into your title block.

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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