



autotrack
designs for movement

AutoTrack Roads

Vehicle Swept Path Analysis

The world's most advanced vehicle turn simulation program

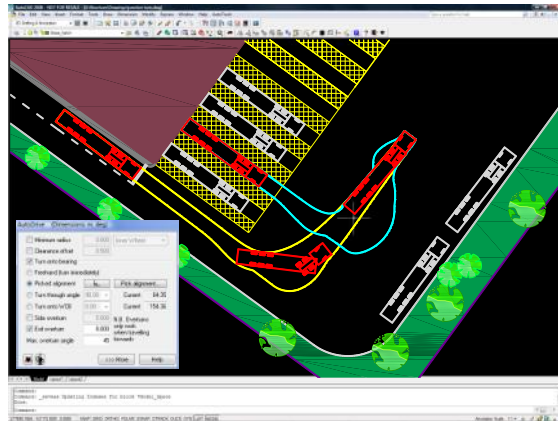
Predict the swept path of steered vehicles at loading bays, junctions, roundabouts, petrol forecourts & service areas. With built-in design vehicles, support for complex user-defined vehicles, multiple drive modes, customisable presentation options and compatibility with the leading CAD systems, AutoTrack is used daily by thousands of engineers around the world.

► Five interchangeable drive modes

Switch live between five interchangeable drive modes, AutoDrive, Manual Drive, Script, Templates or Follow, according to task or preference, or park stationary vehicles.

► AutoDrive with oversteer options (Pro version only)

Use the point and click AutoDrive to generate vehicle movements intuitively. Two modes let you generate smooth arc turns or more abrupt bearing turns with or without side and/or exit oversteer.



Using AutoDrive Bearing to check loading bays

► Other drive modes

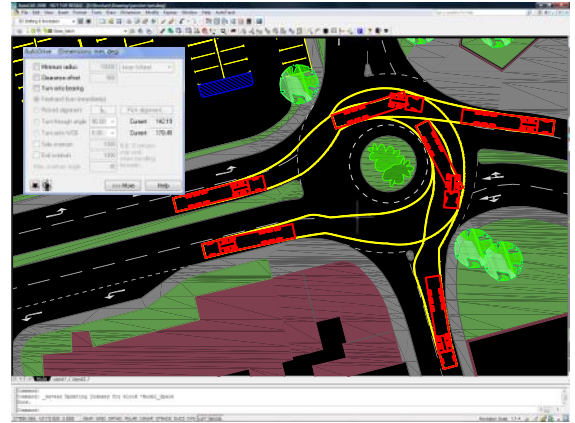
Use Manual Drive for fine control on tight manoeuvres. Use Script to create and save tightly defined manoeuvres which can be re-used with different vehicles each time. Use the Template tool to you generate turns with user-defined radii, angles and over-steer to check simple turns. Use Follow to track lines, arcs, polylines or splines.

► Accurate path algorithms

Whichever drive mode you use AutoTrack prevents wheels or articulation angles from exceeding the specified limits, even momentarily. It also calculates speed dependent transitions at the entry and exit points of turns and between all turns both forwards and reverse unless explicitly overridden by the user.

► Make adjustments interactively

Editing your paths dynamically using grips is an incredibly powerful feature that is unique to AutoTrack. It allows changes to be made to the path alignments as the project develops, using the original settings and vehicle capabilities, without having to regenerate the entire path. And because the path is recalculated dynamically it avoids the potential distortions introduced by scaling or stretching.



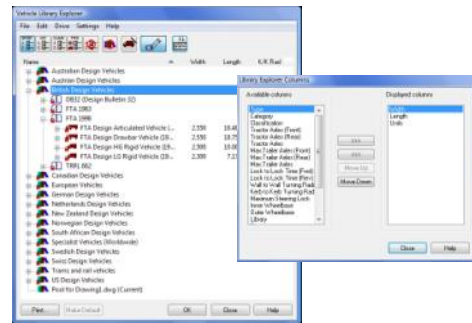
Using AutoDrive Arc to check a roundabout

► Select from hundreds of built-in vehicles

AutoTrack comes 'pre-loaded' with hundreds of vehicles of all types. These include the national design vehicles for the UK, USA, Canada, Australia, New Zealand, South Africa and many European countries.

► Library Explorer data sorting

Find the right vehicle quickly with sortable data columns in the Library Explorer. Decide which data is important to you and display and sort on only that data. It's even possible to compare vehicles in different libraries.



Library Explorer data sorting helps you find your vehicle fast

► Check vertical clearance (Pro version only)

The Vertical Clearance tool lets you check ground clearance and headroom with just a few mouse clicks. Select the vehicle and set the ground clearance and overall height. Select a polyline representing the road profile, and AutoTrack does the rest. AutoTrack monitors the angles and stops the analysis if the vertical articulation limits are exceeded.



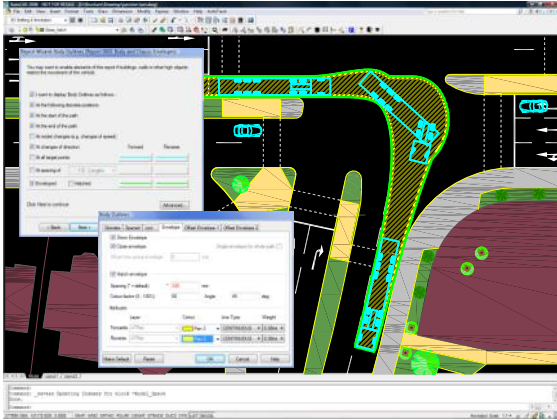
"The best just got better"
Meb Merali
BP

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➤ Present your design with clarity

Either use one of the built-in presentation formats or use the **Report Wizard** to quickly create your own named custom style. You can show vehicle bodies, chassis, loads, either statically, enveloped or spaced and in any colour, line type or weight. Use the realistic vehicle outlines to make your plans stand out. And if you need even more control then simply switch to the **Advanced Report Editor**.



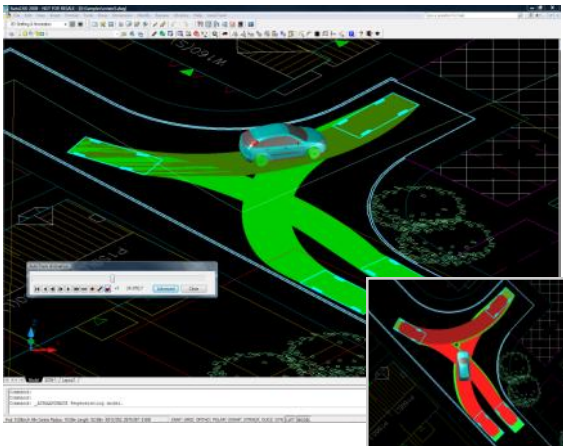
Present your proposal for maximum impact

➤ Powerful 2D & 3D animation included as standard

Help non-technical observers understand your proposal by animating the vehicles. Further enhance your multi-vehicle real-time animations by adding vehicle acceleration and deceleration at stops, starts and changes in speed.

➤ Unique 3D animation option (Pro version only)

For the ultimate in clarity switch to AutoTrack's unique 3D animation. If it sounds complicated, it's not; everything is automatic from the creation of the 3D vehicle shape to setting the camera angle.



Lifelike 3D animation helps sell your scheme

➤ Multiple camera angles in 3D (Pro version only)

To see your manoeuvre(s) from all angles, set up and save multiple camera angles and switch between them at playback.

➤ High quality move file output

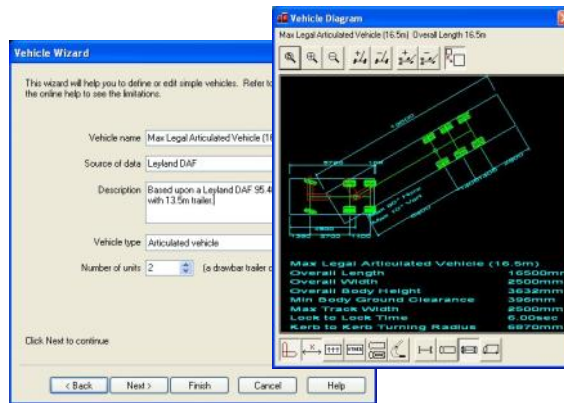
Save animations in highly compressed AVI format for playback in most media players including Windows Media Player.

➤ Create your own vehicles in seconds

If the vehicle you need is not listed then simply create it from one that is (or from scratch) using the **Vehicle Wizard**. If you need something more complex then the **Advanced Vehicle Editor** has virtually no limits.

➤ Models almost any vehicle

AutoTrack allows individual axle geometry no matter how many axles and any axle can be self-steered (partially or fully, uni- or bi-directional) or retracted. It can also model Pendel axles, Independent (or Tandem) bogies as used on many heavy load movers and stub axles. It is the only program of its type to support steering linkages that vary with speed and articulation angle and it can even model **fully independent secondary steering** in which the angle of a secondary steered axle can be adjusted by the driver.



Define or edit vehicles fast with the Vehicle Wizard

➤ Easy to use

The power of AutoTrack is matched only by its ease of use. The **Introduction Screen** and runtime **Tutor** guide new users through the program. The Skill Level settings let you to control how many prompts you see and automatically adjusts as you improve. And the multimedia tutorial shows common tasks being performed. Layer management, language detection, software updating, detection of drawing units and detection of driving convention are all automatic with manual over-rides.

➤ Compatible, comprehensive & portable

AutoTrack is supplied with support for all versions of AutoCAD from **AutoCAD 14 to 64-bit AutoCAD 2012** (including vertical derivatives), all versions of **MicroStation from 95 to V8i**, **MicroStation PowerDraft v7.0 to V8i** and **MicroStation MX Roads XM and V8i**. We even give you a stand-alone version that reads and writes DXF files, so you can use it with other CAD systems such as **AutoCAD LT!** All data is saved in the drawing making it easy to share and archive. And don't worry if you work in both AutoCAD and MicroStation, your AutoTrack data is portable between all CAD systems.



Available in:

- English
- US English
- French
- Spanish
- German
- Italian
- Portuguese



"Awesome"
Roger Weld
New York State DOT

Autodesk
Preferred Industry Partner
AutoCAD® Civil 3D®



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