



autotrack
designs for movement

Autodesk
Preferred Industry Partner
AutoCAD® Civil 3D®

AutoTrack Rail

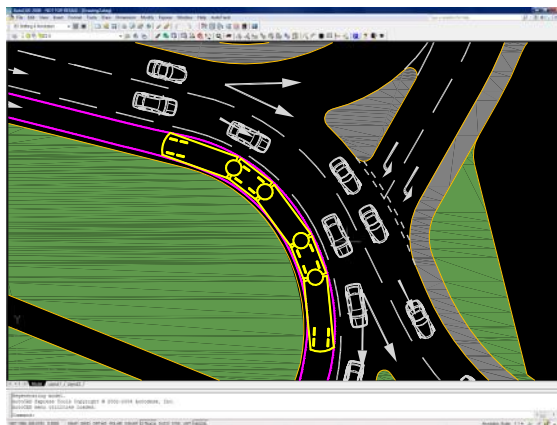
Swept Path Analysis for Light Rail Vehicles

Swept path analysis for trams and other rail vehicles

Check and assess the movements of trams and other light rail vehicles. With features like the Report Wizard, 3D animation and a library of world-wide trams it must be the easiest tool available to model tram movements. Use it with AutoTrack for Highway Design to model other road going vehicles.

Automatic Guided Drive

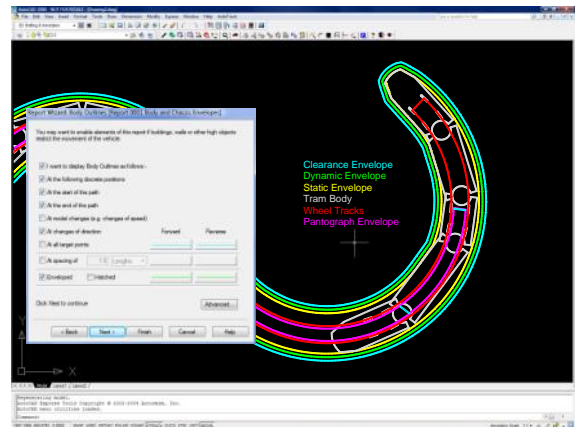
Use the fully automatic Guided Drive to model the path of any railed vehicle, including those with suspended units, along defined rails. AutoTrack monitors the vehicle at every step and ensures that at no time does the vehicle exceed its turning capabilities.



Use with Highway Design version to model trams interacting with cars and other traffic

Clear, customisable presentation formats

Present your ideas in one of the built-in formats or create your own named format using the **Report Wizard**. Manage unlimited user definable reports, each of which may be switched on or off at any time during or after path generation to illustrate specific points. Two offset envelope reports allow you to model clearance or safety envelopes and a special pantograph report allows you to track the path of the pantograph independently of the rest of the vehicle.



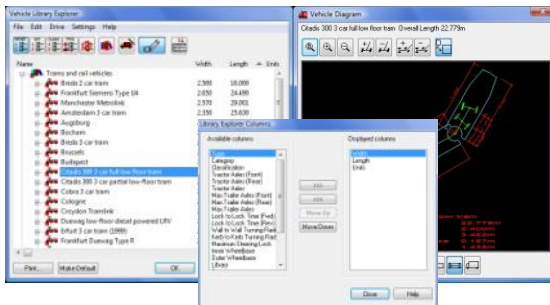
Customisable reports let you show exactly what you need to

Includes international tram library

AutoTrack includes a library of trams used in schemes from around the world. These can be used 'as is' or copied and modified to create new vehicles and new libraries. A true scale diagram of each vehicle is displayed as you scroll through the library.

Library Explorer data sorting

Find the right vehicle quickly with sortable data columns in the Library Explorer.

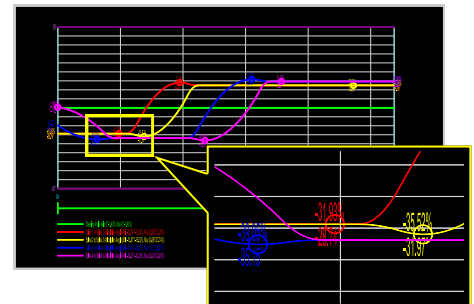


Extensive library of vehicles

You can decide which data is relevant to you and display only those columns. It's even possible to compare vehicles in different libraries.

Steering and Articulation angle graph

Demonstrate that angles fall within acceptable limits by placing a steering & articulation angle graph into your drawing. It can be moved, resized and rotated, is fully configurable and shows the steering angle and/or articulation angles both as absolute values and as percentages of the maximum possible.



Drawing Explorer

The Drawing Explorer lets you see all the AutoTrack data, paths and settings, in all open drawings in a concise and hierarchical format. Copy report or model settings between paths or even drawings.

"A flexible and powerful industry-standard tool used across the board for all our light rail projects"
Gary Farmer
Mott McDonald Ltd

AutoTrack Rail
Swept Path Analysis for Light Rail Vehicles

► Powerful 2D & 3D Animation

Help non-technical observers understand your proposal using the animation tool. Animate multiple trams in real-time and, if you also have AutoTrack for Highway or Airport Design, you can show the interaction with cars and other vehicles. You can even model the acceleration and deceleration at stops, starts and changes of speed.

► Unique 3D animation

For the ultimate in visualisation, switch to 3D mode. It's a single button click and everything is automatic from the creation of the 3D vehicle shape to the viewpoint which, by the way, can be a drivers eye view.

(Note: 3D animation only available in AutoCAD versions)

► Multiple camera angles

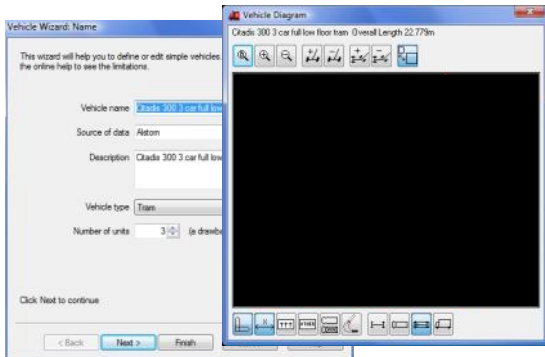
To check out your vehicle movements from all angles set up and save multiple cameras and switch between them during playback. All the viewpoint data is stored with the drawing for recall. If you need to distribute copies then save the animation as a standard AVI movie file. It's so easy!

► Advanced vehicle modelling

AutoTrack can model most trams and supports units with single or double multi-axles bogies as well as suspended units. A special tram body shape allows you to create accurate simplified body outlines complete with end tapers and radii. More detailed outlines can be imported if required so asymmetrical trams are not a problem.

► Vehicle Wizard

The vehicle wizard is just one of two editors built in to AutoTrack. It takes you through the process of vehicle definition or editing in a logical sequence and uses real, not "effective", vehicle dimensions.



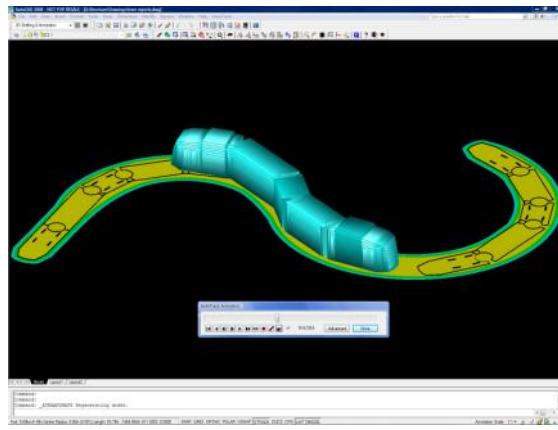
Create new trams quickly using the Vehicle Wizard

► True scale vehicle diagram

AutoTrack includes intelligent true scale diagrams of every vehicle, even those you create yourself, that update as you change the vehicle dimensions. The diagrams can also be inserted into the drawing with or without dimensions.

► Wing mirrors

Add wing mirrors when needed with a single check box. It's now really quick and easy to see if, and how, they affect the space required.



Fully automatic 3D animation

► Easy to use

Features such as the Introduction screen and the run-time tutor guide you through the program and help you to be productive as quickly as possible. The Skill Level settings let you control how many prompts you see and automatically adjust as you improve. And the multimedia tutorial shows you rather than tells you how to do things. Layer management, language detection, software updating and detection of drawing units are all automatic with manual over-rides.

► Unparalleled compatibility and security

AutoTrack runs on **AutoCAD 14 to 64-bit AutoCAD 2012, MicroStation 95 to V8i, MicroStation PowerDraft 7.0 to V8i, MicroStation MX Roads XM and V8i** and we even give you a **free stand-alone version** which can be used with other CAD systems such as **AutoCAD LT**. Data is portable between CAD systems and all data is saved in the drawing so it's **easy to share and archive** without worrying about supplemental files.

► Integrates with AutoTrack for Highway Design

AutoTrack for Light Rail operates seamlessly alongside AutoTrack for Highway Design and Airport Design allowing you to validate complex transportation schemes using a single integrated system.

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Authorized Developer



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