

Swept Path Analysis Software

Model, Visualize and Analyze Vehicle Paths

With AutoTURN and AutoTURN Pro, the most advanced and comprehensive swept path software available, you can easily check your site and road designs to ensure all types of vehicles can move through safely and efficiently.

From bicycles to cars, to buses and trucks, to heavy haul industrial transport—you can quickly test multiple maneuvers and be assured your results are accurate and extensive. Our patented technology allows you to automate processes, saving you time and increasing productivity.

Enhanced review, presentation and reporting features help you get projects approved and expand the value of your work.

Whether you design in 2D or 3D, are an engineer, architect, developer, or planner, AutoTURN has got you covered.

Use the vast catalogue of vehicles—or customize your own—to check:

- Turning simulations and swept paths
- Speeds and turning characteristics
- Sight lines
- Lateral, ground and overhead clearances

BENEFITS | AUTOTURN & AUTOTURN PRO



Take the complicated calculations out of the equation

AutoTURN does the math for you. Eliminate the challenges of calculating curves and modeling vehicles with different steering capabilities. Using a vehicle of your choice, AutoTURN will compute the space requirements and show you the results, so you can focus on the important safety and operational components of your design.



Boost productivity and explore the best design options

Save time and make better decisions. Quickly create simulations and check multiple maneuvers for all vehicles accessing the site. Smart tools and automated processes help increase productivity and reduce human errors. Great for discovering the best design option or modeling more complex scenarios such as traffic calming and site circulation analysis.



Tackle complex urban design and Complete Streets projects

Embrace the future of urban design. With AutoTURN Pro, you can simulate the movement and turning requirements of a variety of bicycle types to validate your design is safe for cyclists, pedestrians and motorists alike.



Test your design with a vast array of vehicles

AutoTURN Pro includes over 1,300 vehicles in its manufacturer-specific and standard design vehicle libraries, so you can run a robust swept path analysis. Quickly search by library name and apply filters to define results. You can also set custom vehicle groups that match your country or local area design guidelines.



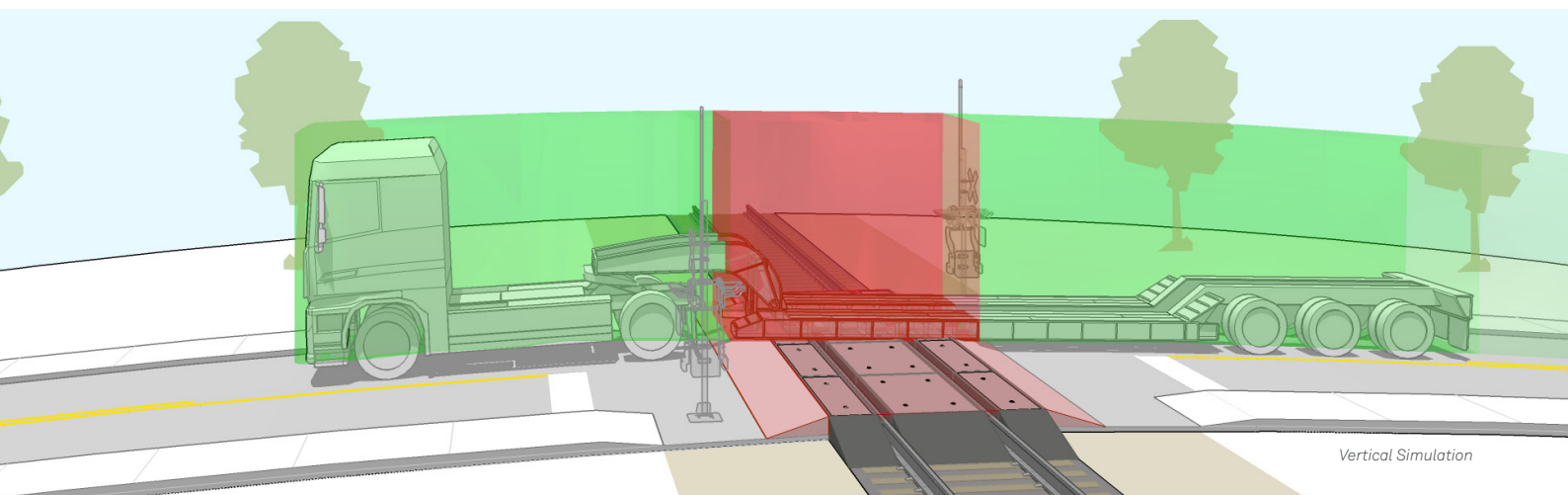
Visualize the impact in 3D

Run 3D simulations to check for potential conflicts with terrain and infrastructure or for presentation purposes. With AutoTURN Pro you can also easily illustrate vehicle paths maneuvering forward and backward.



Review your results with quality diagnostic tools

The automated tools ensure your design aligns with the guidelines and safety requirements of local transportation agencies. You can also readily check any manually produced simulations to ensure key parameters meet design criteria. Produce detailed reports so that reviews can be done by peers or others—meaning you can get a quicker stamp of approval on your design.



Vertical Simulation



FEATURES | AUTOTURN PRO

Simulate bicycle and scooter movements

Ensure your on-street and off-street design projects provide enough space to safely and comfortably accommodate different cycle types, including bicycles, bikes with trailers, and scooters.

Solve possible drive paths based on available space

Save time and reduce guesswork by using the patented IntelliPath tool, which automates the swept paths of multiple vehicle types, and calculates the maximum allowable speeds for specific turns.

Detect vehicle conflicts with terrain and structures in 3D

Prevent costly damages to vehicles and infrastructure by using the 3D Clearance Analysis tool during design. This patented technology simulates the 3D vehicle envelope and analyzes multiple design layers to detect potentials conflicts with lateral, ground and overhead structures.

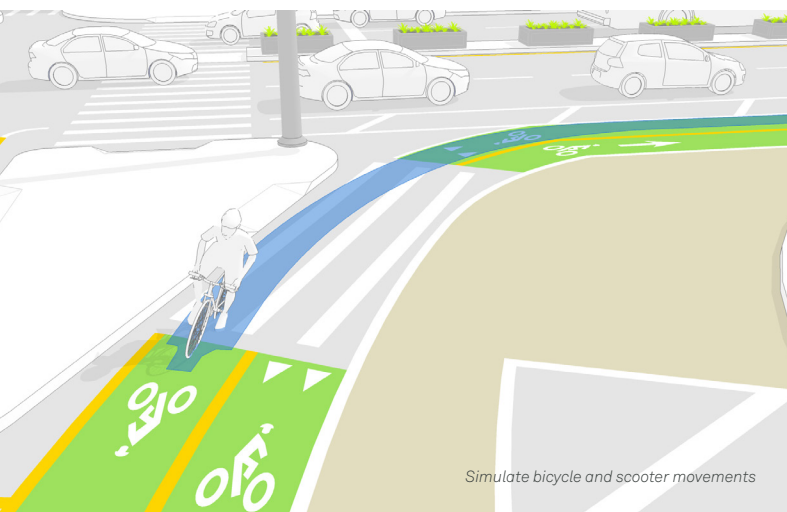
Model, Visualize, and Analyze Vehicle Paths in 2D and 3D

Access an expanded library of manufacturer and standard vehicles

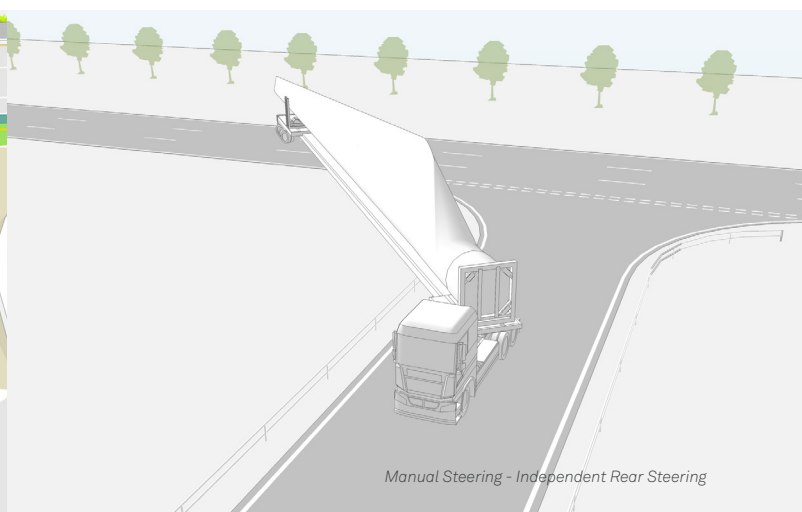
In addition to using the already vast catalogue of vehicles, you can now test designs with various new specialty manufacturer vehicles such as forklifts, limousines, construction cranes, fire trucks and tanker trailers. Standard vehicle libraries have been updated to meet the latest design guidelines in multiple countries.

Conduct informed reviews of simulations

The Inspect Simulation tool allows you to check any manually produced simulations to ensure key parameters, such as steering angle, speed, and proximity to vehicles or objects, meet design criteria.



Simulate bicycle and scooter movements



Manual Steering - Independent Rear Steering

VEHICLE LIBRARIES

Our design vehicles are based on the standards and guidelines of the following countries:

- **North and Latin America** – Argentina | Brazil | Canada | Chile | Colombia | Mexico | Peru | USA
- **Europe, Middle East and Africa** – Austria | Bahrain | Czech Republic | Denmark | Finland | France | Germany | Hungary | Iceland | Ireland | Israel | Italy | Netherlands | Norway | Poland | Russia | South Africa | Slovakia | Slovenia | Spain | Sweden | Switzerland | UAE | UK
- **Asia Pacific** – Australia | Cambodia | Hong Kong (PRC) | India | Indonesia | Japan | Korea | New Zealand | Philippines | Taiwan | Vietnam

AutoTURN also features specialized libraries for vehicle types including: Wind Tower Trailers, Wind Blade Trailers, Beam Transporters I and II, Booster Trailers 19-axle, Heavy Haulers, and eco-combis.

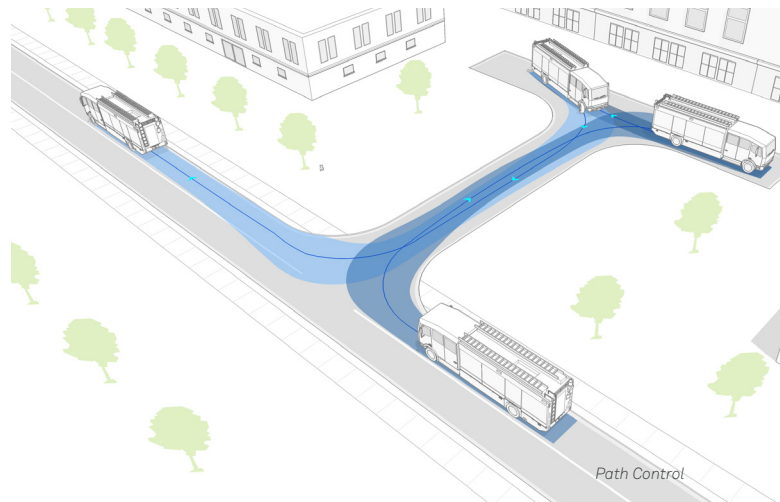


Manufacturer Vehicle Libraries

COMPATIBILITY

AutoTURN and AutoTURN Pro are compatible with the following:

- Autodesk® AutoCAD® 2015 – 2022 (except AutoCAD LT)
- Autodesk® Civil 3D® 2015 – 2022 alignments and surfaces
- Bentley® MicroStation® V8i (SS4 and up)
- Bentley® MicroStation® CONNECT® (Update 12 and up)
- Bentley® PowerDraft (V8i), PowerCivil (V8i)
- Bentley® Power GEOPAK (V8i), Power InRoads (V8i)
- Bentley® AECOsim Building Designer V8i, CONNECT®
- Bentley® OpenBuildings Designer CONNECT®
- Bentley® OpenRoads Designer CONNECT® and surfaces
- Bentley® OpenCitiesMap CONNECT®
- Bentley® OpenSiteDesigner CONNECT®
- Bricsys® BricsCAD® (Pro and Platinum) V19 – V21 and surfaces
- ZWSOFT® ZWCAD® Pro 2019 – 2021



ABOUT TRANSOFT SOLUTIONS

Transoft Solutions develops innovative and highly specialized software for transportation professionals in the aviation and civil infrastructure industry. Since 1991, Transoft has remained focused on software solutions that enable professionals to plan and design efficient and safe transportation infrastructure with confidence. Our portfolio of planning, simulation, modeling, and design solutions, are used in over 130 countries serving more than 50,000 customers across local and federal agencies, consulting firms, airport authorities, and ports. We take pride in providing best-in-class customer support from our headquarters in Canada, and through offices in Sweden, the United Kingdom, the Netherlands, Australia, Germany, India, Belgium, and China.

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