

# System Requirements and Software Compatibility for VehicleSim Products

## VehicleSim Products

- CarSim 9.0, TruckSim 8.2a, BikeSim 3.2.1, SuspensionSim 8.2

## Operating Systems

- Windows 7 (32-bit and 64-bit), and 8 (32-bit and 64-bit)

## Minimum Hardware Specifications

- Hard Drive: 3 GB free disk space
- Memory: 1 GB RAM
- CPU: 1 GHz Intel® Pentium or equivalent
- Graphic processing unit (GPU): OpenGL 2.1 hardware support with 128 MB video memory (NVIDIA, AMD, or similar)

## Recommended Hardware Specifications (Required for DS)

- Hard Drive: 10 GB free disk space
- Memory: 4 GB RAM
- CPU: 2.2 GHz Intel® i5 or equivalent for laptop; 3.0 GHz for desktop
- GPU: OpenGL 3.0 hardware support , 1 GB video memory (NVIDIA, AMD, or similar)
- For a driving simulator, consider a high-end gaming computer
- MATLAB/Simulink 32-bit only

## External Software Compatibility

**Notes** Both 32-bit and 64-bit<sup>1</sup> versions are supported unless indicated otherwise.

For products and versions not listed, please contact Mechanical Simulation for more information.

- MATLAB: releases 2007b through 2014b

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<sup>1</sup> Running CarSim models with 64-bit versions of MATLAB requires a compatible C compiler. See <http://www.mathworks.com/support/compilers/R2014b/index.html> for more information.

- LabVIEW: tested with versions 2011 and 2012. No known issues for versions back to 8.2 (32-bit only)
- ASCET 5.2 (32-bit only)
- TNO MF-Tyre 6.1 (32-bit only), 6.1.2 and 6.2.0.2
- TNO MF-Swift 6.1 (32-bit only), 6.1.2 and 6.2.0.2 (optional license required from TNO/TASS)
- COSIN FTire: tested versions 2011-1 through 2013-1, 2013-4, and 2014-4 (optional license required from COSIN)
- AVL Cruise for CarSim starting with Version 2010.1 (optional licenses required from AVL and Mechanical Simulation). Tested versions 2010.1 through 2013.

## Real-Time System Compatibility (Optional Licenses Required)

**Note** Mechanical Simulation has tested all VehicleSim product releases on some versions of each supported RT systems, but not all combinations. For more details about specific combinations, please contact us at [tech@carsim.com](mailto:tech@carsim.com) or 734-668-2930.

Following are the minimum hardware requirements for each supported RT system.

- **dSPACE**

Tested releases 5.2, 6.6, and 7.1 – 7.3

	CarSim	TruckSim	BikeSim
DS1005	1.0 GHz	1.0 GHz	1.0 GHz
DS1006	2.0 GHz	2.0 GHz	2.0 GHz
DS1103	1.0 GHz	1.0 GHz	1.0 GHz
SCALEXIO (7.1 – 7.3)	2.2 GHz	2.2 GHz	2.2 GHz

\*DS1401 (MicroAutobox I) no longer supported.

- **RT-Lab**

Tested releases 8.2.24, 10.1.5, and 10.2.2

	CarSim	TruckSim	BikeSim
	2.0 GHz Dual Core	2.4 GHz Dual Core	2.0 GHz Dual Core

- **ETAS LabCar**

Tested release 4.1

	CarSim	TruckSim	BikeSim
	2.0 GHz Dual Core	2.4 GHz Dual Core	2.0 GHz Dual Core

- **National Instruments**

Tested LabVIEW RT 8.5, 2010, and 2011; VeriStand 2010 and 2011

	CarSim	TruckSim	BikeSim
LabVIEW-RT	2.0 GHz Dual Core	2.4 GHz Dual Core	2.0 GHz Dual Core
VeriStand	2.0 GHz Dual Core	2.4 GHz Dual Core	2.0 GHz Dual Core