

VehicleSim System Requirements & Software Compatibility

VehicleSim Products

- CarSim, TruckSim, BikeSim, SuspensionSim version 2016

Operating Systems

- Windows 7 (32-bit and 64-bit), 8 (32-bit and 64-bit), and 10 (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-bit¹ versions are supported unless indicated otherwise.

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

- MATLAB: releases 2007b through 2015b
- LabVIEW: tested with versions 2011 and 2012. No known issues for LabVIEW versions back to 8.5 (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

¹ Running VS 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.

- TNO MF-Swift 6.1 (32-bit only), 6.1.2 and 6.2.0.2 (optional license required from TNO/TASS)
- TASS MF-Tyre/MF-Swift 7.0 (32-bit only) for CarSim (optional license required from TASS)
- TASS MF-Tyre/MF-Swift 7.0 (DS1006 only) for CarSim RT dSPACE (optional license required from TASS)
- COSIN FTire: tested versions 2011-1 through 2013-1, 2013-4, 2014-4, and 2015-4 (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 2014.
- AVL Cruise for TruckSim starting with Version 2011.1 (optional licenses required from AVL and Mechanical Simulation). Tested versions 2011.1 through 2014.

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 or 734-668-2930.

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

dSPACE

We support dSPACE 5.2 to the latest version; we have tested releases 5.2, 6.6, and 7.1 – 2015A. Support for dSPACE 5.2 to 6.5 will be discontinued in 2017.

	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 – 2013B)	2.2 GHz	2.2 GHz	2.2 GHz

*DS1401 (MicroAutobox I) is not supported.

RT-Lab

We support RT-Lab 7.x to the latest version v11.x; we have tested releases 10.4.x on QNX 6.3.2 and Linux. Support for RT-Lab 7.x – 8.x will be discontinued in 2017

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

ETAS LabCar

We support LabCar 4 to the latest version; we have tested release 5.30.

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

National Instruments

We support LabVIEW 8.5 to the latest version; we have tested LabVIEW 2012 & VeriStand 2012.

	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

AVL ARTE.Lab

CarSim is supported and was tested on ARTE.Lab 3.1.