

System Requirements and Software Compatibility for VehicleSim Products

VehicleSim Products

- CarSim 8.2.2, TruckSim 8.2a, BikeSim 3.2.1

Operating Systems

- Windows XP (SP3, 32-bit only), Vista (32-bit and 64-bit), 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 versions are supported unless indicated otherwise.

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

- MATLAB: tested R14 with Service Pack 3 (Version 7.1), 2009a, 2009b, 2010a, and 2012a
- 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, and 2013-4 (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 2012.

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**

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