

Lab Software

Ricardo WAVE



WAVE is the market-leading ISO approved, I D engine & gas dynamics simulation software package from Ricardo Software. It is used worldwide in industry sectors including passenger car, motorcycle, truck, locomotive, motor sport, marine and power generation. WAVE enables performance simulations to be carried out based on virtually any intake, combustion and exhaust system configuration, and includes a drivetrain model to allow complete vehicle simulation.

Key Features

- Advanced engine combustion sub-models
- State of the art compressor and turbine physics
- Comprehensive ID and 3D after treatment library including TWC, DPF, LNT, DOC and SCR sub-models
- Advanced acoustic features including class-leading meshing tools and acoustic post-processing
- Rapid, consistent model construction using the drag-and-drop element library, user-defined templates and self contained components.
- Fast, accurate creation of high quality models directly from 3D geometry using WaveMEsher and WaveBuild3D
- Extensive results presentation and reports generation capability using the WavePost post-processor
- Graphical plotting on the fly and integration input control using the WAVELive interface
- Distributed running over unlimited CPUs
- Parallel running on multicore CPUs

Licensing

Florida Institute of Technology offers a restricted 5 seat-license, which allows authorized network concurrent users. Requests for the license and software installation can be made by contacting the [Technology Support Center](#).

5-seat Concurrent License Overview

- RDESK_GUI

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- RPLOT_Base
- RsimLinkNet
- SDFBROWSE_Base
- WAVE_Acoustic
- WAVE_Base
- WAVE_CadMesher
- WAVE_Conduction
- WAVE_Diesel3DPost
- WAVE_FECond
- WAVE_Iris
- WAVE_Load
- WAVE_RsimLink
- WAVE_SIFlame
- WAVE_Transient
- WAVE_Turbo RICARDO
- WAVE_WaveBuild
- WAVE_WavePost

Maintaining of Software

The Lab Support Services, Information Technology department is primary responsible for all licenses and software maintenance. They can be contacted through the [Technology Support Center](#).

Support requests can be forwarded to the Technology Support Center for processing by visiting their homepage at <http://www.it.fit.edu>.

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Author: Tech Support

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