NovaCarts Virtual

NovaCarts Virtual software brings the test bench to the local control computer. Installing NovaCarts Virtual as an additional element during the installation of NovaCarts test control software gives the user a virtual machine that behaves like a NovaCarts real-time computer without any hardware connected. This virtual test environment is particularly suitable for cost-effective testing of simulations and databases without using actual test benches.

This enables test departments to perform e.g. initial testing of their control equipment software, and to prepare and verify theoretical models very early on in the development process without taking up testing time on a hardware-in-the-loop (HiL) simulator.

Furthermore, the virtual real-time computer can also be used to perform a lot of preliminary work on the content of the actual HiL tests. Such an ptimized preparation helps to use scarce HiL simulator resources as efficiently as possible.
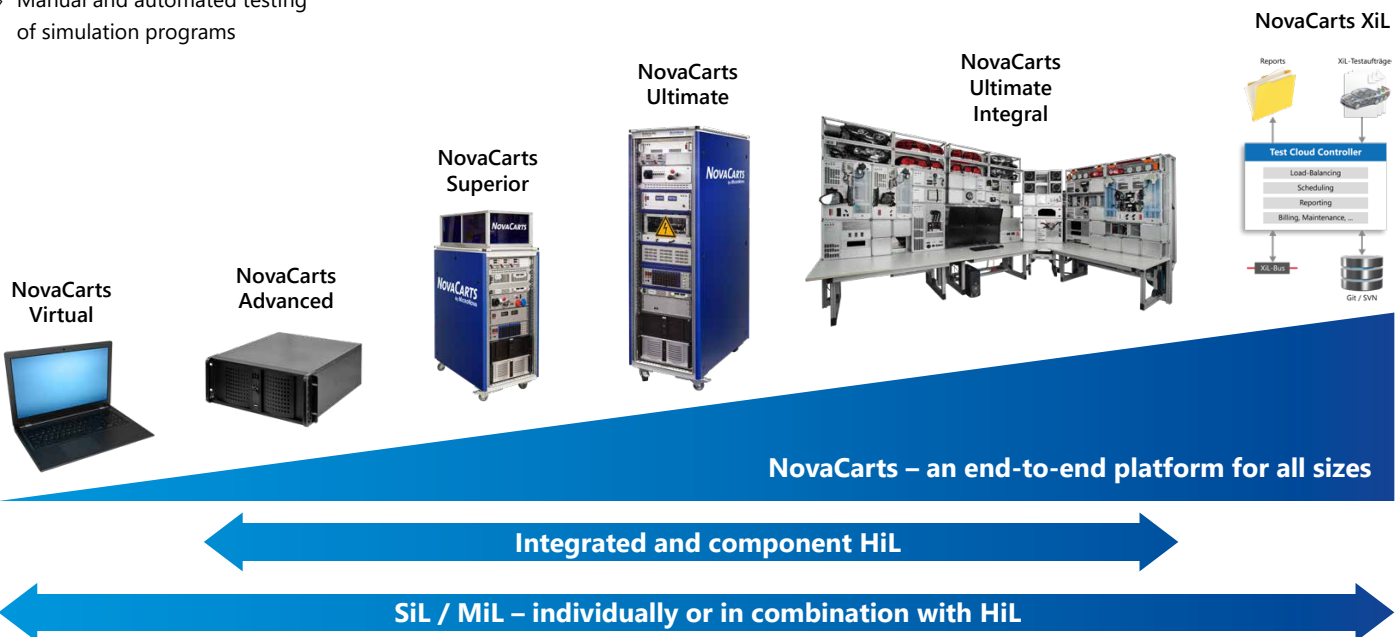
Models created for NovaCarts test systems are binary-compatible and can therefore be used on all NovaCarts platforms, meaning that verified, quality-assured simulation programs can be re-used without having to be recompiled.

Typical applications for NovaCarts Virtual are all types of work that do not require a HiL system with control equipment, for example:

» Creating a database
» Preparing tests
» Trial runs
» Functional tests with limited
   real-time requirements
» Manual and automated testing
   of simulation programs

The virtualized real-time computer runs on the control PC, eliminating the need for separate hardware.

The various configuration levels of the NovaCarts platform cover all types of test requirements, from local simulation on a PC with Nova-Carts Virtual through to a highly scaled cloud platform.

Data Sheet

Order number: **NC-Virtual**

Data sheet version: **1V0**

Advantages

» **Optimum use of HiL test times:** Preparing the content of HiL tests in the virtual test environment cuts the time needed on the actual HiL simulator
» **Versatile use** for testing simulation models and control equipment software

Highlight

» Local testing of databases and simulations

Features

» Virtual test environment
» Compatible with NovaCarts software
» Can run locally thanks to virtual machine
» Automatic operation under EXAM

Package Includes

» Virtual machine with NovaCarts Virtual software (prerequisite: Oracle VM Virtual Box)