Dynasoft – The Vehicle Dynamics Software

IDIADA Dyansoft is a software solution that facilitates the process of analysing and reporting of data from vehicle dynamics tests.

Dynasoft is a toolbox based on NI Diadem and has a user-friendly interface, logically designed to match an efficient workflow from project definition to results generation. Through the automatization of several steps of the process, and the correct management of metadata, the software avoids the possibility of human errors and reduces reporting time.

The tool provides full control of the analysis process, including the possibility to perform data checks based on the test definition and a comparison of results from different datasets or projects.
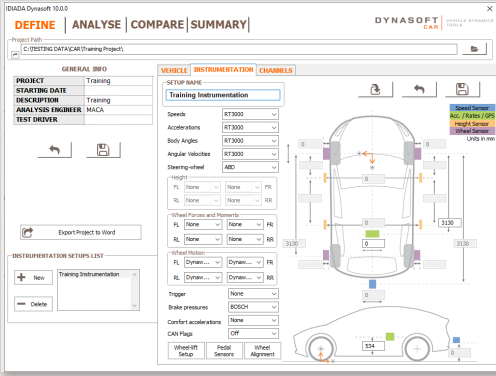
HANDLING   COMFORT   STEERING   STABILITY

IDIADA · UN · NHTSA · ISO · EuroNCAP · GOST

Dynasoft also accounts for a wide variety of analysis test procedures and combines available international standards with IDIADA's expertise in the development of custom KPIs. Hence, the tool is used for a complete characterization of vehicle dynamics performance and for the validation of homologation requirements in different markets worldwide.

KEY ADVANTAGES

- Efficient generation of reports following an intuitive process

- A single tool for governance of all vehicle dynamics standards and protocols worldwide

- Import and export of the industry's most common data formats

- Quality assurance of data and information generated with a repeatable process

- Enhanced control of metadata related to project, vehicle, test instrumentation and test conditions

- Agile data comparison between vehicles and projects
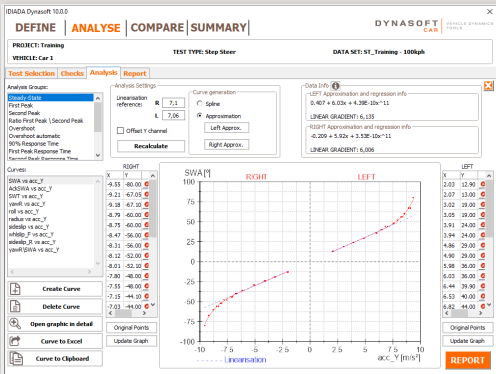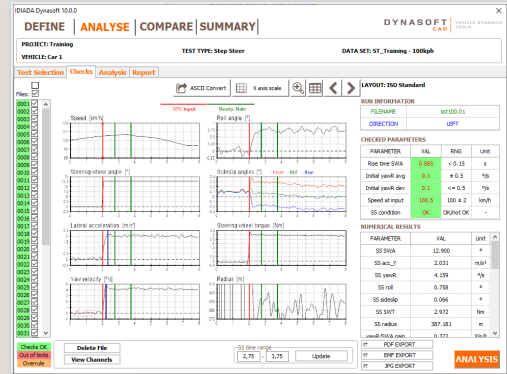
SET-UP

- Intuitive user interface to set up all the sensors fitted to the vehicle
- Pre-configuration of industry-standard sensors for efficient set-up
- Compatibility with outputs from the most common industry data loggers

CHECK AND DATA VALIDATION

- Visual inspection of time series
- Automated checking of specific test requirements
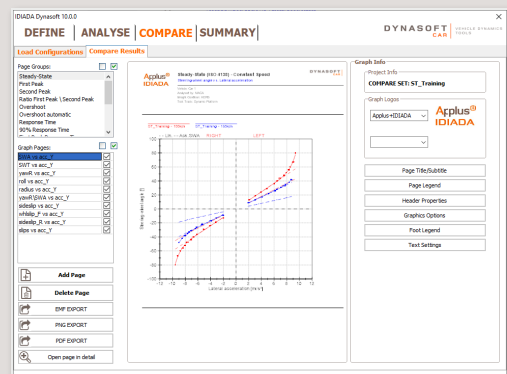- Quick overview of conformity of all test runs including numerical results

ANALYSIS

- Comprehensive plots including frequency domain, scatters, line plots, and time histories
- Specific IDIADA developed function library for curve fitting and metric calculation
- Configurable comfort analysis to suit any road inputs
- More than 200 additional KPIs developed by IDIADA's experts for detailed performance characterization and correlation with subjective data

REPORTING

- Comparison of datasets results and conditions
- Configuration of report pages contents including plots and metadata
- Customisation with corporate logos and vehicle logos
- Data export in the commonly used formats for easy data exchange

ⓘ CONTACT INFORMATION

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