

About DASY2

Design Assistance System 2 (DASY2 or DASY) is a software that is aimed on helping on early stage of design process. It has two main goals:

- To be knowledge database to conserve the knowledge to be reused in the future.
- To be a flexible framework for engineering computations with possibility to use existing 3rd party tools and computational systems.

It was successfully used to optimize some engine components in conjunction with well-known software packages, like GT-Power and Abaqus.

Some of the key features of DASY:

- modular model structure (model is composed from blocks);
- descriptive model definition;
- task definition is separated from model definition, making it possible to solve not only direct, but also reverse tasks;
- built-in numerical solver;
- built-in genetic optimization algorithm with support for constraints;
- support for response surface methodology;
- two-way interaction with CAD models;
- plugins for direct interaction with CATIA and Pro/E (Creo) CAD packages with ability to add support for more CAD packages if needed via plugins system;
- plugin for direct interaction with Microsoft Excel and ability to add plugins for direct interaction with other external software;
- support for interaction with any external software that supports input and output files;