

CAD / CAE technology designed for numerical scientific calculations of modeling and simulation

The technology is used for geometric modeling of objects, including simulation, analysis, and mathematical solutions for efficient design of new products and equipment for industrial applications.

Application areas of this technology: construction (2D / 3D CAD), data management (PDM / PLM), simulation (CAE), NC production (CAM), visualization (SLM), and engineering calculations (Mathcad).

Technology enables powerful 2D / 3D CAD solutions optimized for new product development.

CAD / CAE technology is also designed to creation and optimization of 3D virtual models of production parts systems. Technology can also be used for solution of research projects in the field of creation, verification, and optimization of parts of production systems using structural, dynamic and kinematic analysis.

Software description

CAD / CAE technology

Software is a tool for modeling of various construction elements. It contains various functions that can be applied to models created in the system, as well as imported geometry from other CAD tools and therefore it is possible to provide a good level for the so-called flexible geometry. This technical ability

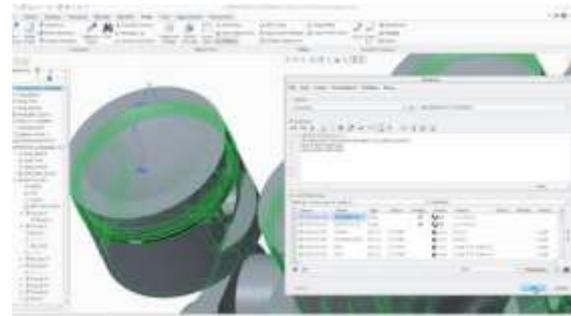
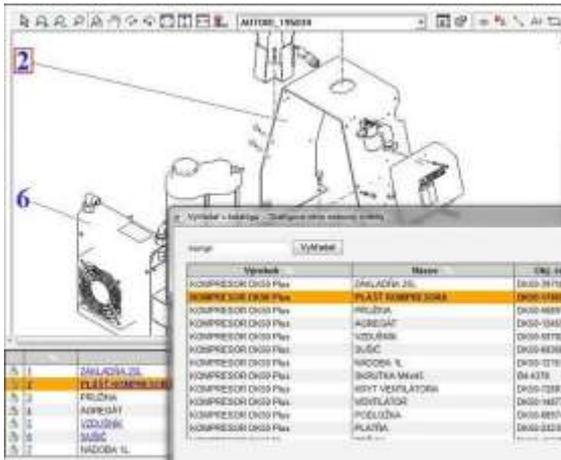
can be used to create quality construction and for fast modification of design solutions.

With this software you can create, analyze, view, and share designs with subsequent use of 2D / 3D CAD. Also, it is possible to use any CAD data to create an AR (augmented reality).



Software for creating electronic catalogs of assemblies

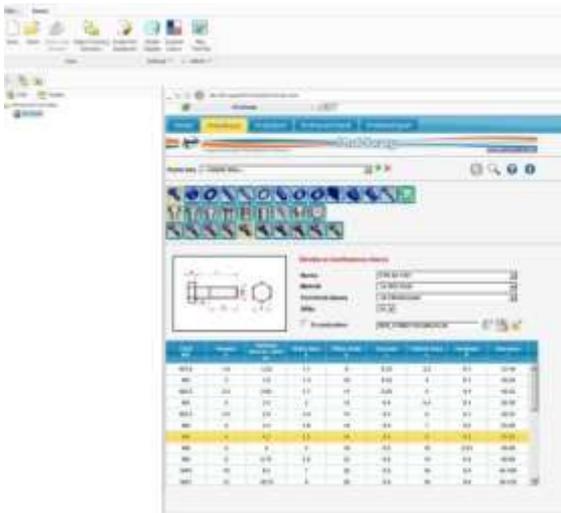
Software is designed for automated creation of electronic spare parts catalogs (ESPC). It includes a set of powerful tools for creation of electronic (html) spare parts catalogs. From the catalog project is possible to automatically generate its PDF version. The graphical interface of application is user friendly, and its logic guides you through the creation of the entire ESPC project.



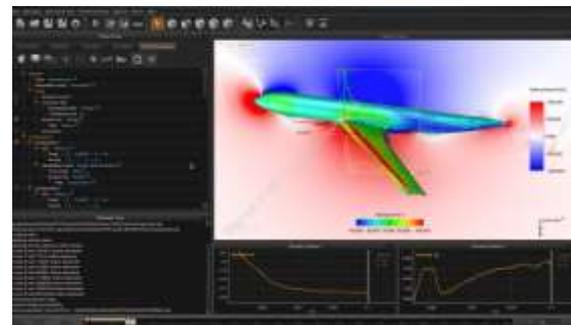
Software for simulating the flow of liquids and gases

Additional applications for CAD / CAE software

These applications include add-on software auxiliary applications that can be used to streamline your work with selected applications or with 3D data in general.



The software is characterized by a new approach, which is based on particles and avoids the traditional process of elements mesh creation. It uses its own "state-of-the-art Lattice Boltzmann" technology and is specially designed for those cases where accurate information is required about: flow simulation, transient aerodynamics, water management and fluid interaction structure.



Engineering mathematical software

Software is a mathematical tool which enables you to work much easier with calculations using standard mathematical notation. It permits to easy perform, analyze, document, and share calculations.