

ADEM Technologies releases its new integrated system, ADEM 8.0, with LEDAS geometric solver LGS 3D

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The Russian integrated CAD/CAM/CAPP system ADEM 8.0 has been released by ADEM Technologies. One of the most important features of the integrated system ADEM is that the technical drawing and 3D modeling as well as technological, archiving and other functions of the system are combined in the same working environment. It means that all the system tools are united in a single software complex with the aim of resolving the engineering automation and design support of the production line. Simultaneous use of the different tools to conduct various tasks in the same software package allows users to prepare for production with a minimum of human resources and in the shortest possible time.

The main automation tools of the ADEM system are aimed at conducting the following tasks:

- ♦ renewal of cumulative knowledge
- ♦ 3D and 2D modeling
- ♦ preparation of engineering documentation
- ♦ design of technological processes
- ♦ preparation of technical and support documentation
- ♦ programming of machines with a computerized control
- ♦ managing archives and projects
- ♦ product design

The final task is closely related to the new subsystem, ADEM Assembly. This subsystem of ADEM 8.0 for variative parametric assembling is designed to work with large assemblies effectively. The CAD-environment of ADEM is to design individual details and assemblies. It is responsible for creating and managing both assembly units and the workpiece in whole.

The primary functions of the module are:

- ♦ import or direct loading of the models of details and aggregates

- ♦ positioning them in space in respect to each other with the defined constraints (incidence, coaxiality, perpendicularity etc.)
- ♦ conservation of the conditions with respect to changing input data
- ♦ animation (in correspondence with various rules)
- ♦ associative connections with the data source for input details and units

The basis for ADEM Assembly is the three-dimensional geometric constraint solver LGS 3D, developed by LEDAS. It has been designed to be an effective and affordable component for assembly and 3D drawing applications to combine complete functionality, competitive performance and superior intelligence in a three-dimensional engineering domain.

LEDAS has worked with ADEM Technologies at integration of the solver and improvement of its performance since 2003. The LGS 3D was delivered to ADEM for industrial testing within the ADEM Assembly, while ADEM Technologies provided a set of industrial tests and a shell to support the testing process.

ADEM 8.0 is an integrated system for the engineering and design support of production. One of the key features the system possesses, is 3D modeling with the highest level of work, use of which facilitates the production through modern equipment. The models must play the role of a master copy to control the order and quality.

LGS 3D (LEDAS Geometric Solver) is a three-dimensional computation engine that supports creation and modification of designs using geometric and engineering constraints in CAD/CAM/CAE/PLM solutions. This new, state-of-the-art engine can be used by application developers who need a strong variational and constraint-based functionality in CAD, modeling, engineering software or other geometry-related applications. To read more about LGS please visit lgs.ledas.com.

About ADEM Technologies

One of the leading Russian CAD companies, ADEM Technologies Ltd. was founded more than ten years ago by ELGRA (Moscow, CherryCAD developer) & CRONA (Izhevsk, KATRAN developer). The key solution of ADEM Technologies is an integrated CAD/CAM/CAPP system, ADEM: Automated Design, Engineering, Manufacturing. More information about ADEM Technologies can be found at www.adem.ru.

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About LEDAS

LEDAS Ltd. is an independent software company founded in 1999 and is based in Novosibirsk, Russia. LEDAS is a leader in constraint-based technologies and is well-known as a provider of PLM components: geometric constraint solvers for CAD/CAM/CAE, optimization engines for Project Management, Work Scheduling and Meeting Planning interval technologies for Knowledge-Based Engineering and Collaborative Design. The company also provides services for PLM and ERP markets: software development, consulting, reselling, and education. Information on LEDAS is available on the Internet at: www.ledas.com.

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