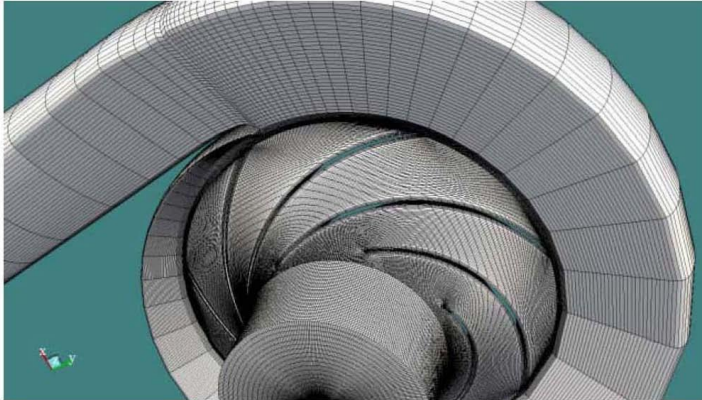


# **CONCEPTS NREC**

**NEWS RELEASE**  
**FOR IMMEDIATE RELEASE**

## ***Concepts NREC Now Shipping Agile Engineering Design System® 2010***

***Upgrades to the company's flagship turbomachinery software system cover all aspects of engineering, design, and manufacturing.***



Solutions encompassing every flow passage are run in Pushbutton CFD, which is most immediately useful for off-design volute analysis but applicable to any machine design.

**White River Junction, VT – August 26, 2010** – Concepts NREC (CN), a world leader in turbomachinery design, research, engineering, and manufacturing, is now shipping the latest version of the Agile Engineering Design System ([AEDS 2010](#)), the only commercially available turbomachinery design system that integrates the complete engineering process through to manufacturing. AEDS 2010 includes upgrades to all its major modules. Turbomachinery engineers, designers, and manufacturers will benefit from the improvements included in AEDS 2010.

Concepts NREC will host a free four-hour [webinar](#) on September 15 to demonstrate AEDS 2010's many upgraded features and benefits. To register for the Concepts NREC AEDS 2010 webinar, go to: <http://tinyurl.com/AEDS2010>.

“Every year, we survey our users to address current market needs,” says Mark Anderson, Vice President of Software for Concepts NREC. “We’re seeing more and more requests for CAD compatibility and data transfer to other geometry and analysis software products as well. People want to move their data around seamlessly from one software package to another.”

Concepts NREC's AEDS 2010 software covers all aspects of turbomachinery design and analysis. Its integrated computer aided engineering (CAE) tools help in development of rotating machinery such as turbines, compressors, fans, and pumps from preliminary design, detailed design, computational fluid dynamics (CFD), and finite element analysis (FEA) to optimization.

The top new features in AEDS 2010 are:

- Meanline Radial Design Using COMPAL®, RITAL™ & PUMPAL® - Meanline changes for better initial designs for pumps, and a new simplified fixed efficiency model
- Meanline Axial Design Using AXIAL™ & PUMPAL - New macro functions for more flexibility in design mode and localized design mode iterations
- Detailed Design Using AxCent® -
  - Splitter cutback option to take advantage of advanced manufacturing techniques that define edges independently of ruled surface lines
  - The ability to represent a cutback surface as an impeller and diffuser combination (typical of a “downhole” design)

- Tandem blade options
- Volute step geometry option for a step or shelf on either (or both) sides of the volute for pump-style types
- A new asymmetric volute type using a volumetric intersection technique to define the three-dimensional (3D) shape
- Computational Fluid Dynamics (CFD) Using Pushbutton CFD® -
  - Improved clearance gap grid topology using degenerate cells to reduce grid skewing
  - Better splitter grid generation via a new distribution scheme for impellers with splitters
  - Full 360-degree CFD solutions encompassing every flow passage. Most immediately useful for off-design volute analysis, but applicable to any machine design
  - Increased computational efficiency through better parallel calculations, 64-bit executables, and LINUX-based options
- Faster Toolpath Computation Using MAX-PAC™ - Upgraded toolpaths that compute up to 40% faster than with previous versions

### **Availability and Purchasing**

Concepts NREC's new Agile Engineering Design System Software 2010 is available for lease or purchase via the company's worldwide sales offices and authorized distributors. Purchase prices per module start at \$15,000. For a sales contacts and distributors, go to <http://www.conceptsnrec.com>.

### **About Concepts NREC**

Concepts NREC is a leading worldwide organization providing turbomachinery design, engineering services, manufacturing, and CAE/CAM software, with a staff of over 100 professionals at its facilities in Wilder, VT, and Woburn, MA. For more than half a century, Concepts NREC has provided manufacturers, users, government agencies, and the engineering community with technology tools, services, and products that have met their needs, helped achieve their goals, and aided in development and production of some of the world's most advanced products. Concepts NREC is headquartered at 217 Billings Farm Road, White River Junction, VT, 05001-9486. Telephone: 802-296-2321. Facsimile: 802-296-2325. For more information, go to: [www.ConceptsNREC.com](http://www.ConceptsNREC.com).

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