



The Experts in Turbomachinery

Manufacturing

Specializing in the quality machining of inducers, propellers, impellers, blades, blisks, and other pump, fan, turbine, and compressor parts



• Engineering • Software • Manufacturing • Training

Concepts NREC

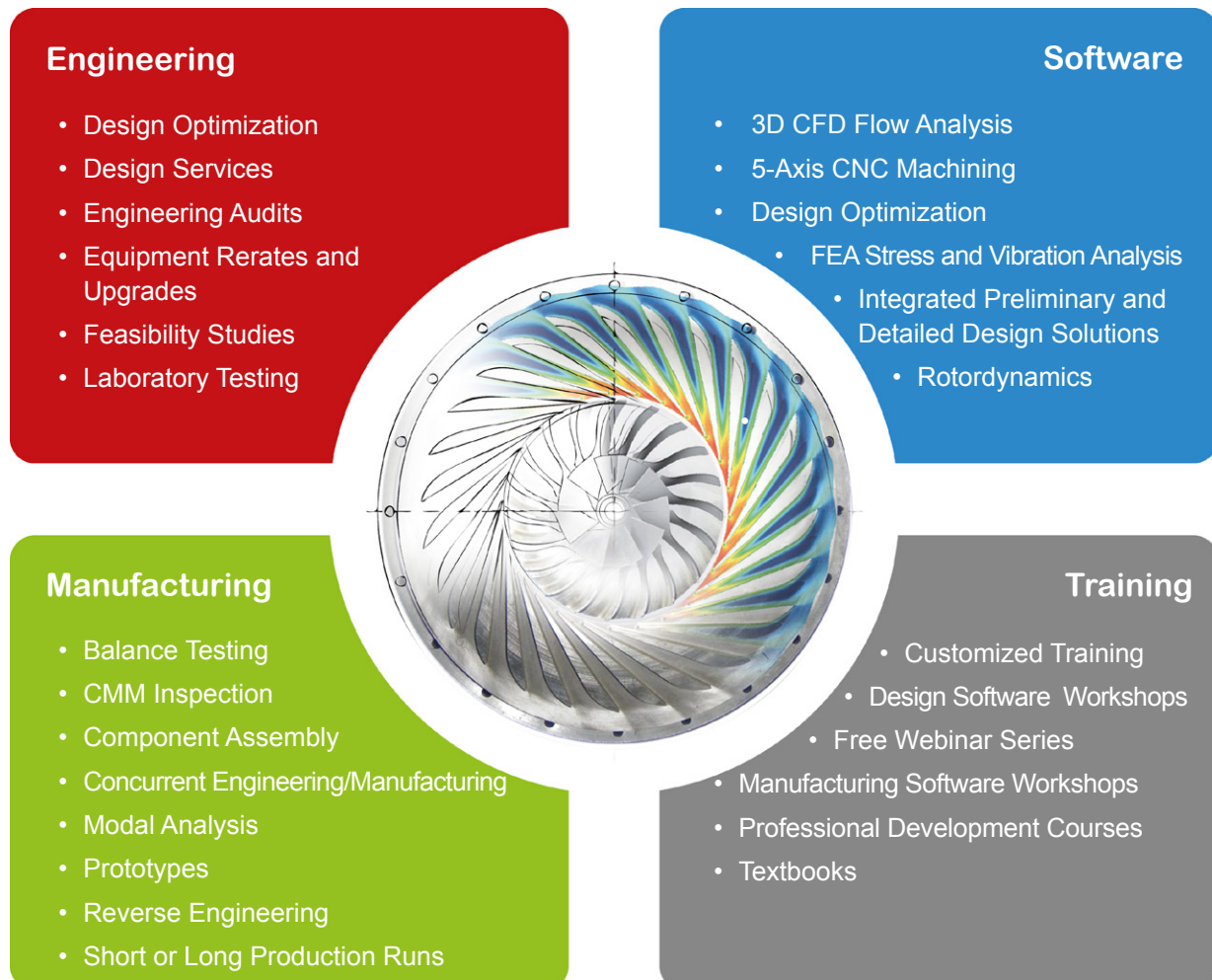
For over 50 years, Concepts NREC has been partnering with the world's leading OEMs to improve the performance and manufacturability of turbomachines. We are the only company in the world whose in-house capabilities span the entire process — from conceptual design through manufacturing, testing, and installation. This unique perspective creates powerful synergies that drive innovation across our entire offering. Our clients benefit from having a trusted partner who can see the big picture and provide valuable insights that save them time and money.

We are ISO 9001:2008 certified and committed to providing our customers with products and services that meet international quality standards.

Advancing the State of the Art in Turbomachinery

Concepts NREC maintains a robust in-house research and development program. We hold over 70 patents worldwide, with numerous patents pending. Concepts NREC is also the leader of the global *Advanced Centrifugal Pump and Compressor Consortium for Diffuser and Volute Design*, an internationally sponsored research venture dedicated to advancing diffuser and volute design.

We push past what *has* been done to explore what *can* be done. Concepts NREC has the vision to create great designs and a hard-earned reputation for delivering them.



Value-Added Manufacturing Solutions

Concepts NREC's manufacturing capabilities extend far beyond simply cutting metal. Our highly skilled machinists are backed by experienced design engineers with diverse technical backgrounds and software engineers who have produced industry-leading CAE and CAM programs. This broad expertise enables us to suggest more efficient manufacturing methods, materials, processes, and designs that meet customer needs while lowering their production costs.

Concepts NREC's state-of-the-art manufacturing center features 3- and 5-axis milling machines, horizontal and vertical numerical controlled lathes, and high-end inspection equipment. Our specialty is delivering prototypes and short production runs of our clients' most challenging turbomachinery parts.

Capabilities

- 5-axis machining of blades, blisks, inducers, propellers, impellers, and other turbomachinery parts
- Component assembly
- Concurrent manufacturing/engineering
- Coordinate Measuring Machine (CMM) inspection
- Dynamic balancing and modal analysis
- Inspection and testing to validate integrity and performance
- Machining complex shrouded (enclosed) impellers for pumps and compressors
- Prototypes and shorter production runs
- Reverse engineering of obsolete parts

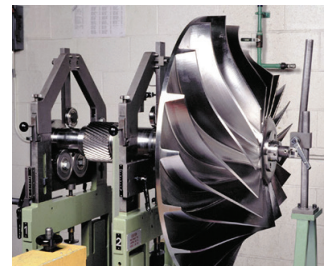


Your Trusted Partner

Our design and manufacturing capabilities make us the first choice for many of the world's leading manufacturers.

- Large OEMs trust us to concurrently engineer/manufacture the blisks and vanes for their newest product designs.
- International pump companies rely on us for our consistent quality and timeliness with their shrouded (enclosed) impellers.
- Users across a broad spectrum of industries leverage our expertise to reverse engineer obsolete turbomachinery parts.
- Early-stage start-ups work with us to build and improve their prototypes.

How can we help you? Contact us today to discuss your manufacturing needs.





The Experts in Turbomachinery



★ Worldwide and regional headquarters. We also have sales offices and representatives strategically located throughout the world to support our global clients.

We Offer

- CAE Software
- CAM Software
- Design Audits
- In-house Laboratory Testing
- Manufacturing Services
- Precision Prototypes
- Research and Development
- Scoping Studies
- Specialized Products

Our Focus

- Air Dynamometers
- Compressors
- Fans and Blowers
- Gas Turbines
- ORC Turbine Generators
- Pumps
- Steam Turbines
- Superchargers
- Turbochargers

Concepts NREC

Corporate Headquarters
217 Billings Farm Road
White River Junction, VT 05001

Phone: +1 802-296-2321

Email: info@conceptsnnrec.com

www.conceptsnrec.com



Agile Engineering Design System, AxCent, AXIAL, COMPAL, FANPAL, PUMPAL, RITAL, Pushbutton FEA, Pushbutton CFD, CTAADS, TurboOPT II, MAX-5, MAX-SB, MAX-AB, MAX-SI and MAX-PAC are registered trademarks or trademarks of Concepts NREC, LLC. Other company, product, or service names, including VERICUT, GasTurb and Dyrobes, may be trademarks of their respective owners. © 2016 Concepts NREC, LLC. All rights reserved.