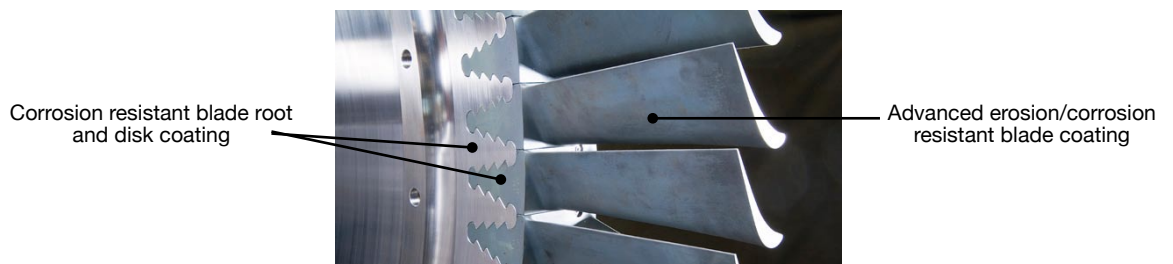
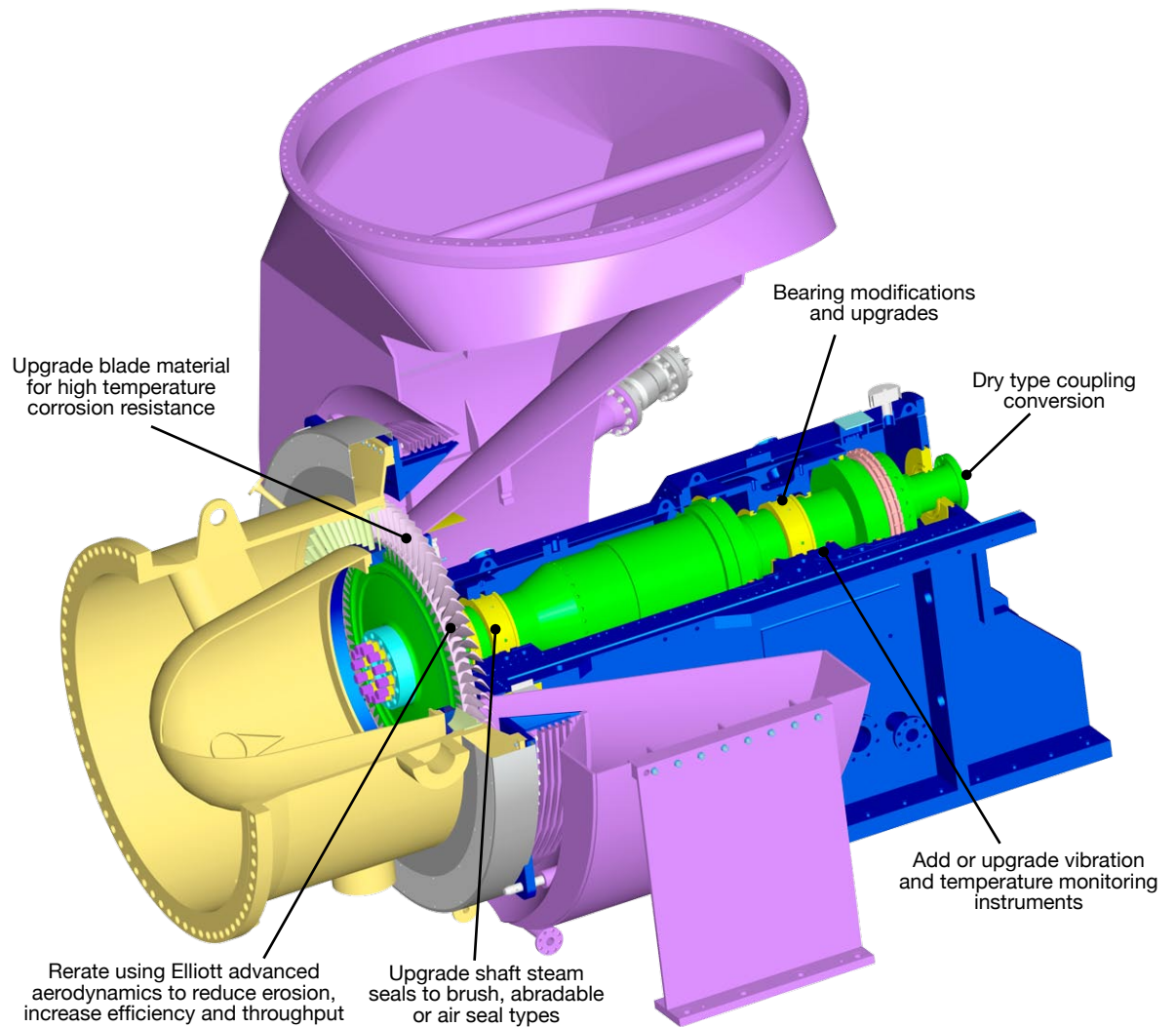


Power Recovery Expander Upgrades

Every minute that critical process machinery is shut down whether planned or unplanned means a significant loss of revenue. An equipment upgrade by Elliott Rerate Services can significantly increase reliability, which can extend time between shutdowns, abbreviate turnarounds and reduce unplanned outages. Elliott Site Audits can also identify upgrades that improve efficiency, boost performance, lower operating costs, reduce maintenance expenses, improve plant safety, and enhance environmental compliance.

Elliott is a leader in improving the design, materials, manufacturing techniques and components associated with turbomachinery. Illustrated below are examples of some reliability, efficiency, and maintainability upgrades that Elliott can apply to power recovery expanders from any manufacturer.



The world turns to Elliott



Elliott Rerate Services

Elliott Rerate Services has one clear focus – to help customers derive additional value from their critical turbomachinery. Elliott has nearly 100 years of experience in engineering, manufacturing, repairing, and modifying all types of rotating equipment. Elliott's depth and breadth of experience translates into expertise that few companies can match and none surpass. Elliott Rerate Services specializes in the following areas:

- Rerating and upgrading turbomachinery to increase the operational life and value of your investment by improving efficiency and reducing down time
- Reapplying previously owned equipment for an emergency replacement or cost-effective alternative
- Comprehensive engineering studies such as lateral and torsional rotor analysis, root cause failure analysis, mechanical evaluation (FEA), and aerodynamic analysis (performance and efficiency)
- Reverse engineering capabilities to produce parts from any equipment manufacturer (portable CMM)
- Provide onsite audit services to evaluate plant for efficiency and reliability improvements to maximize your return on existing equipment

Elliott Service Facilities

Americas

Baton Rouge, Brazil, Chicago, Edmonton, Guatemala, Houston, Jacksonville, New Orleans, Pittsburgh, San Francisco, St. Louis, Toronto, Trinidad

Europe, Middle East, Asia

Australia, Bahrain, Italy, Japan, Malaysia, Singapore, Taiwan, United Kingdom

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