Flexware® Rerates

**Maximize Efficiency, Capacity & Reliability**

*Rerate Compressors and Turbines for New Conditions*

Increase capacity & pressure rise or accommodate for other process condition changes:

- Rerate (new redesigned impellers, blades and diaphragms)
- Performance curve for new conditions – gas, pressure, temperature or speed
- Internal seal changes
- Generate performance curve for old machines

**Internal Seals**

Small efficiency improvements can be made by upgrading internal seals.

- Fluorosint
- Honeycomb
- Rub Tolerant

**Field Performance Analysis**

A field performance test will provide the information necessary for the designer know where the machine has been operating and to do a good job with the rerate. Flexware remote monitoring will track the performance over a period of time providing the solid track record necessary for a thorough analysis.
CompAero & TurbAero

Flexware software CompAero & TurbAero are used for the aerodynamic design work on rerates, modeling of existing compressors and turbines and for field troubleshooting.

Aerodynamic Design:
- Individual stages
- Straight through compressors & turbines
- Iso-cooled compressors
- Sidestream compressors
- Condensing turbines
- Extraction turbines

Accurate Results
Proven design methods used over the past 30 years provide accurate results.

Pressure Ratio vs. Inlet Flow

Some Flexware Orders
- Review the aerodynamic design of Elliott rerated compressors for Petrologistics.
- Aerodynamic rerates of various compressors for GE Oil & Gas.
- Troubleshooting Elliott compressor performance problem for Sunoco refinery in Tulsa Oklahoma, USA.
- Rerate of a 5 stage Elliott centrifugal compressor for Pemex for new gas conditions.
- Develop individual stage performance curves for an Elliott Compressor for Dresser Rand.
- Aerodynamic rerate of an air compressor for RMS.

Aerodynamic Modeling:
- Estimate new equipment
- Rerate for new conditions
- Confirm performance
- Design new components
- Plot predicted curves
- Troubleshoot aero problems