



Extending blade life



Liburdi's **RIC™** "Reactive Ion Coating" was designed to protect airfoils from erosion by depositing a thin, hard ceramic film. **RIC™** process performs well with new and overhauled components. Liburdi Turbine Service technicians also strip and re-apply this coating to meet our customer's maintenance requirements.

Glass like super polished surface finish $6\mu\text{in}$ RMS improved fuel economy and performance up to 1% SFC. Hardness of over 3000 HV in a nano layered thin film ceramic retains chord width and performance.

RIC™ coated is recommended for turboprop, turboshaft, and turbofan engines.





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Test Engine Comparison: GE T-64 Turboprop Compressor



RIC™ Results

- Minimized chord loss
- Lowered SFC (Specific Fuel Consumption)
- Preserved “New Compressor” power levels and stall margins
- Reduced aerodynamic change in resonant frequencies and fatigue strength
- Extended blade life, three times longer than the uncoated blade

Liburdi Turbine Services Qualifications

- Over a decade of service
- Fully Qualified for RR/Allison T-56/501D
- Cleared for Flight Test for GEAE T-58
- Successfully Flight Tested for GEAE-T64 Turboprop and Turboshaft
- Successfully Flight Tested for P&W JT8D Stage 6 rotor blades



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