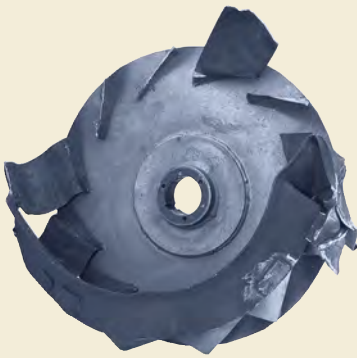


Expert Fan and Shaft Service and Repair

• Fan Service & Repair • Shaft Service & Repair • Dynamic Balancing • Static Balancing

Minimize downtime and control costs when you call on NFCF to provide professional fan and shaft service and repair. Our experience working in industrial, commercial, and institutional facilities can help you prevent maintenance problems as well as handle emergencies that may arise.



A fan damaged in operation that required emergency repair.



Rebuilt and placed back in operation.



NIAGARA FRONTIER



CUSTOM FABRICATION

Phone: 716-821-1391

Email: balance@nfcf.net

www.NFCF.net

Full Service Rotating Equipment Maintenance and Repair

Repair or Rebuild Small and Large Fans

- Housings
- Shafts
- Bearings
- Inlet Cones



Repaired fan cage



Bearings that are subject to wear

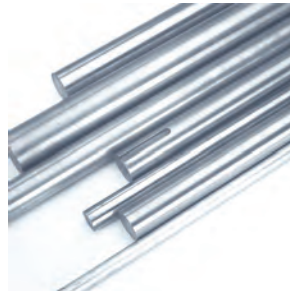


Overhung air foil

Shaft Repair and Replacement

NFCF will refurbish your existing shafts or provide new shafts, depending on what is the most practical and economical for you. Service capabilities include:

- Correct material available in stock for immediate use
- Custom cutting to proper length
- Assured trueness
- Keyways cut to specification
- Metalizing



Dynamic and Static Balancing

Excessive vibration in rotating machinery can produce unacceptable levels of noise and cause components to wear. This can result in breakdowns or catastrophic and costly equipment failure.

In today's industrial, commercial, and institutional facilities, there is a vast amount of complex rotating equipment that can be comprised of fan wheels, pump impellers, fly wheels, gears, impellers, rotors, cylinders, drums, and many other components of various shapes and sizes that must be balanced.

NFCF has the experience and capability to provide full-service dynamic balancing and static balancing.

- Identify and correct points of imbalance
- Help avoid vibration, excess noise, and wear
- Ensure smooth and efficient operation of your rotating machinery
- Extend service life and performance quality of equipment
- 6,000-lb. capacity to handle large or small jobs
- Performed on-site or at our facility

Dynamic Balancing is the ability to balance while in motion or when switching positions. Using a balancing machine with two sets of bearings connected to sensors, NFCF conducts computer analysis of the equipment running at different speeds. Excess material is removed, and all centrifugal forces are controlled.

Static Balancing is the ability of a stationary object to balance. The fan unit is placed on low-friction bearings so that it rotates gently and settles, thus identifying the heaviest point. Excess material is removed and the process is repeated until there is no longer an obvious heavy point. A non-rotating spindle tool can also be used to identify downward deflection and location of imbalance.