

Axial Compressor Rotor Repair

Product Sheet

Quick Turnaround, EthosEnergy Quality

EthosEnergy can inspect, repair, reverse-engineer and rebuild axial compressors from virtually any OEM, including stationary elements, blades, rotors, bearings, and other parts. We incorporate advanced manufacturing tools like CNC milling machines and advanced welding technologies like Submerged Arc, MIG and TIG, that meet demanding API, ISO and OEM specifications.

Repair Solutions

We can return almost any axial compressor to its original specifications through reverse-engineering, repair and manufacture of replacement parts. Our advanced operating speed bunker can ensure that your compressor will run smoothly on the job.

With each and every repair, your compressor rotor receives a complete inspection under the supervision of experienced and skilled EthosEnergy engineers.

Design improvements can be implemented during the repair process, offering solutions to existing problems or needs.

Advanced Welding

Besides standard repair methods, such as HVOF metal spraying and Chrome plating, EthosEnergy's sub-arc technology and other advanced welding techniques ensure fast high-integrity repairs for axial compressor rotors.



Our Customer Benefits

- Fast turnarounds for repairs
- Extensive blade manufacturing experience
- Reliable repair solutions
- In-kind replacement or upgraded parts
- Responsive service customized to your needs, budget & schedule

Fast Manufacturing

We can reverse-engineer and manufacture both blades and rotors. With advanced CNC multi-axis milling centers, wire EDM equipment, sinker EDM equipment, and other custom-made equipment, we can turn your job around fast.

Rotor Repair Example

A steel producer approached EthosEnergy for the repair of an axial compressor rotor of one of their three axial compressors (Sulzer ACV 13 – 63 blast furnace blower).

Scope of work

- Rotor Strip Down & Inspection
- Reverse Engineering of the blades and locking sections
- Supply of blades and locking sections;
 - Supply Nickel Plated Blades for Stages 1 – 4
 - Supply Blades for Stages 5 – 13
- New Labyrinth Strips & Caulking
- Rotor Rebuild & Final Inspection
- High Speed Balancing



EthosEnergy is a leading independent service provider of rotating equipment services and solutions to the power, oil & gas and industrial markets. Globally, these services include facility operations & maintenance; design, manufacture and application of engineered components, upgrades and re-rates; repair, overhaul and optimization of gas and steam turbines, generators, pumps, compressors and transformers; delivery of gas turbines and generators, and supply of overhauled and warranted equipment on a FAST TRACK basis.