

Phoenix Rotor™ Frame 7FA.03/.04

Hybrid rotor with New and Certified Previously Operated (CPO)™ components certified for 144,000 FFH of remaining life



The lifespan of heavy frame gas turbine components is limited. Experience indicates that age-related risk, including forced outages, increases exponentially when gas turbine components are operated beyond their design life.

EthosEnergy's Phoenix Rotor™ is intended for rotors approaching or exceeding 144,000 Factored Fired Hours (FFH) or 5000 Factored Fired Starts (FFS) and is available as an exchange or fleet program.

Aligned to meet all pertinent OEM TILs including safety-critical TIL-1576, Phoenix Rotors™ are available in stock to minimize outage duration.

Proven OEM design and materials are used for EthosEnergy Frame 7FA.03/.04 Phoenix compressor and turbine rotor discs.

KEY FACTS



Expected Rotor Life

144k FFH,
5k FFS

Rotor Disc Materials

NiCrMoV,
NiCrMoVNb alloy,
IN718 alloy

Specifications Overview

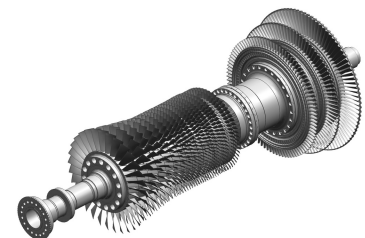
Rotor will be provided as fully bladed on compressor section and no buckets on turbine section. If requested, customer provided or EthosEnergy buckets will be installed on the turbine rotor prior to delivery. The compressor rotor will be interchangeable with frame 7FA.03/.04 flared compressor rotors. The turbine rotor will be interchangeable with enhanced cooling slot Gen 4 design equivalent.

Turbine rotor newly manufactured components:

- New stage IN718 1-3 turbine wheels and bolting hardware
- New stage IN718 1-2 and 2-3 spacer
- New distance piece and aft stub shaft

Compressor rotor newly manufactured components:

- New stages R12-R17 wheels
- New compressor bolting
- New marriage hardware
- New compressor blades
- Stages R0-R17 with enhanced R0 design
- Stages R12-R17 wheels with round bottom slots



Dimensions:
28' 0" x 7' 6"

Approx.
Shipping Weight:
96,000 lb (rotor);
10,000 lb (skid)