

Details Engineering Research and Development of 2 M.W. stream turbine with 8-pressure reduction stage

THE CLIENT

A Europe-based client offering an array of customized solutions to power generation equipment along with performance guaranty.

THE BUSINESS NEED

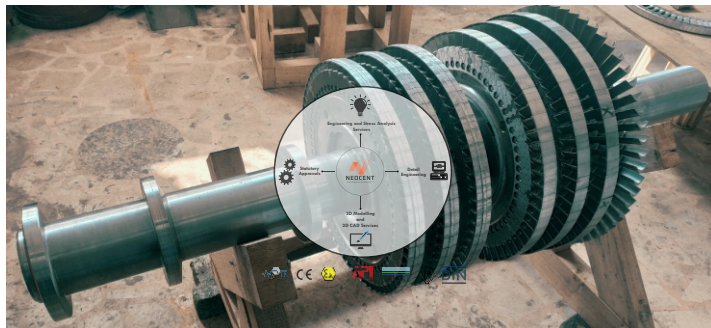
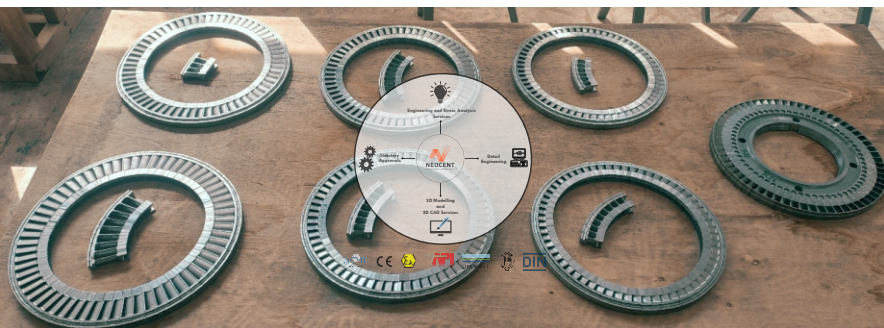
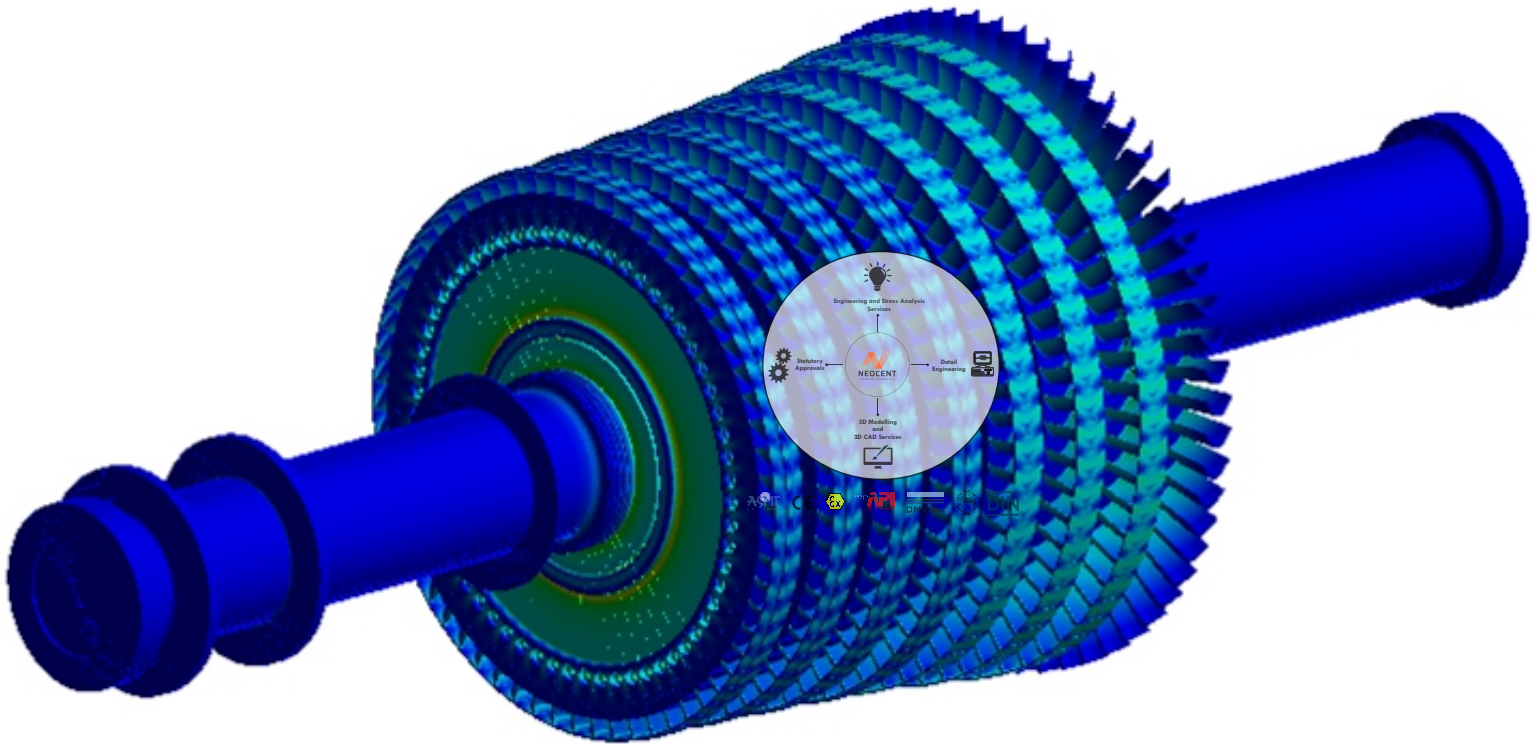
Our client was seeking engineering design assistance for a 2.5MW steam turbine with 8 stage pressure reduction. Client wanted Stress simulation and Flow simulation for whole system package.

NEOCENT SOLUTION & DELIVERABLE

Detail Engineering : Mechanical and thermal detail design Steam turbine stages, Shaft critical speed and balancing calculation, thrust and radial bearing selection, Process calculation for each reduction stage, Foundation load calculation etc.

CAD Detailing : G.A. Drawing , Details fabrication drawing ,3D Equipment Modeling, Machining drawing along with precise tolerance

Analysis : FEA Stress analysis on Each rotor and stator blade and Assembly, Stator-Rotor along with Shaft vibration study, Thrust and radial force validation, Interface / Contact Stress analysis etc.



Neocent Engineering Services is a multi-discipline engineering services company. Established in 2015, we offer high-quality engineering support solutions to global EPC organizations across some of the industries listed: Automotive, Aerospace, Turbo machinery, Heavy engineering, HVAC, Oil & Gas, Material handling and Process industry.

Neocent provides detailed engineering services to EPC, EPCM, OEM, and PMC as long-term turnkey projects. Our EPCM services include Project Management, Feasibility Studies, Conceptual & Basic Engineering, Detailed Design, Procurement, Construction Management, Commissioning & Start-up, and Operations & Maintenance.

Neocent Engineering's service offering, include;

- Engineering and Stress Analysis Services
- Details Engineering
- 3D Modelling and 2D CAD Services
- Statutory Approvals

Neocent FEA Consulting Services

FEA is beneficial to any project that requires strength, durability or dynamics analysis. It is frequently used to investigate design changes for cost, weight, manufacturing, bench marking or performance reasons, and can provide early confidence in designs prior to undertaking expensive and potentially destructive test regimes.

We specialize in delivering design optimization services through FEA across enlisted areas:

- Structural analysis of various industrial components for storage for stability and seismic vibrations
- Fracture analysis and design validation for limiting cases
- Life assessment tests against fatigue loading and pressure
- Study of component behaviour for impact loading and design validation
- Design optimization to withstand designed values of pressure and stress
- Thermal analysis in heating and cooling industrial equipment
- AISI N690

The technical expertise of our FEA consultants in delivering Finite Element based product design optimization enables you to address complex engineering design problems and help validate product designs prior to production.

At Neocent, we aim to achieve our vision by emphasizing ensuring that our offerings meet the following criteria, agility , on-time delivery, superior quality, cost-effectiveness and great efficiency continues learning culture amongst the team an able and guarantees continuous innovation in the business.

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