

Detail Design calculation , FEA Stress Analysis and Detail fabrication Drawing for 30 TPH Apron Feeder for AFR material handling

THE CLIENT

A India-based client offering an array of customized solutions to cement industries with customized material handling equipments.

THE BUSINESS NEED

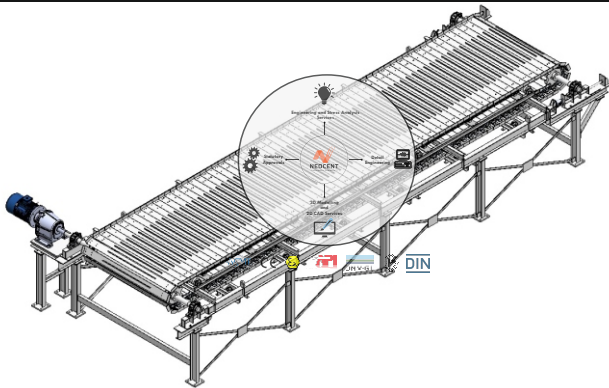
Our client was seeking engineering design assistance for a 30 tph Apron feeder structure design. Client wanted Stress simulation on Apron feeder Structure with IS:875 wind applicable code and Seismic for manufacturing approval process.

NEOCENT SOLUTION & DELIVERABLE

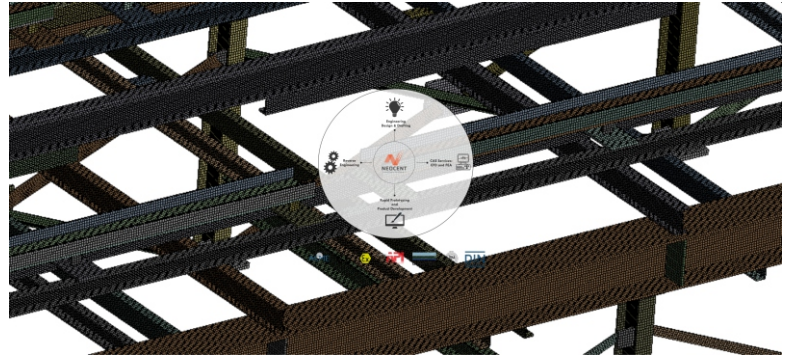
Detail Engineering : Mechanical detail design for Apron feeder Structure, Foundation load calculation, Lifting and transportation load calculation , Lifting Lug details calculation etc...

CAD Detailing : G.A. Drawing , Details fabrication drawing ,3D Modeling Hopper Structure, Transportation Support Drawing, Lifting and Erection Drawing.

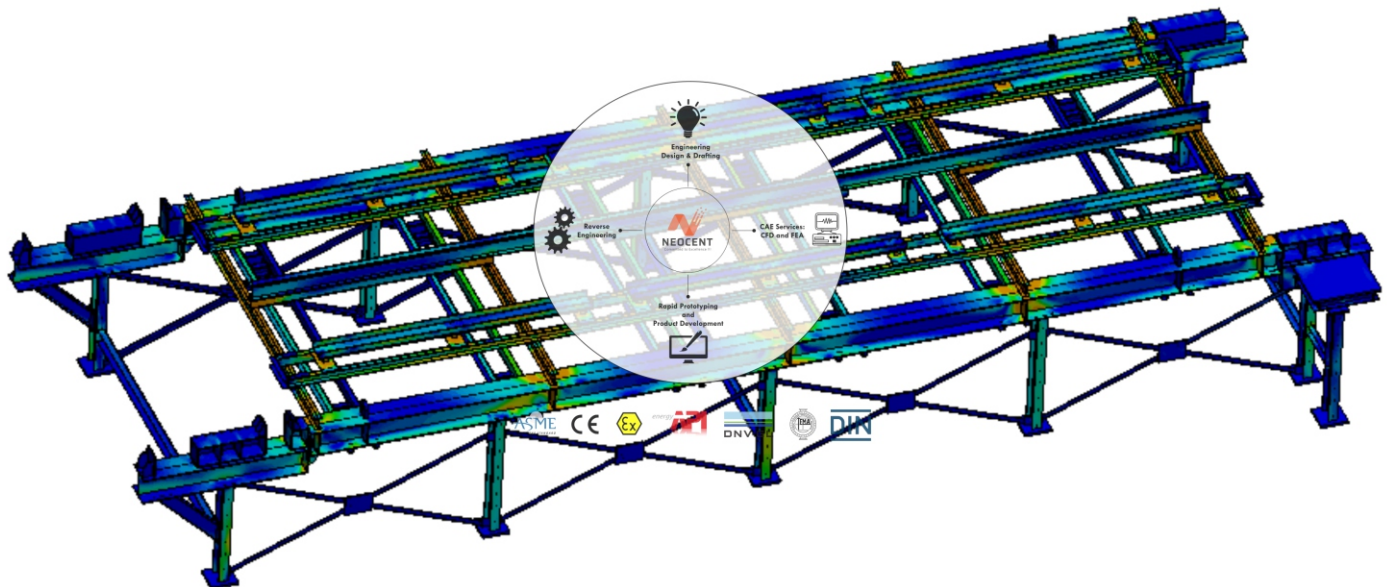
Analysis : Structure Stress Analysis



Details 3D CAD Modeling Apron Feeder Structure



Meshing (Hexa) for Apron Feeder Structure



Stress Distribution on Apron feeder Structure

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

Neocent Engineering expert engineers are proficient in analyzing the impact of external focus on static structures, such as construction components, machine components, and more. Our highly skilled engineers offer structural analysis to ensure that these modules meet fatigue safety requirements.

Our Structure and stress analysis specialists help simulated the movements of non-stationary objects in vibration analyses, lifting analysis, and other services. With our technology and experience in structure stress analysis, we quantify and further rectify failure in the structure of components that do not meet the proposed design plan, which could results from improper use of materials or even flaws in the manufacturing process.

Industry codes and standards adhered to by our Designers :

ANSI, AISC, UBC, ASCE, ACI, BS, IS.

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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