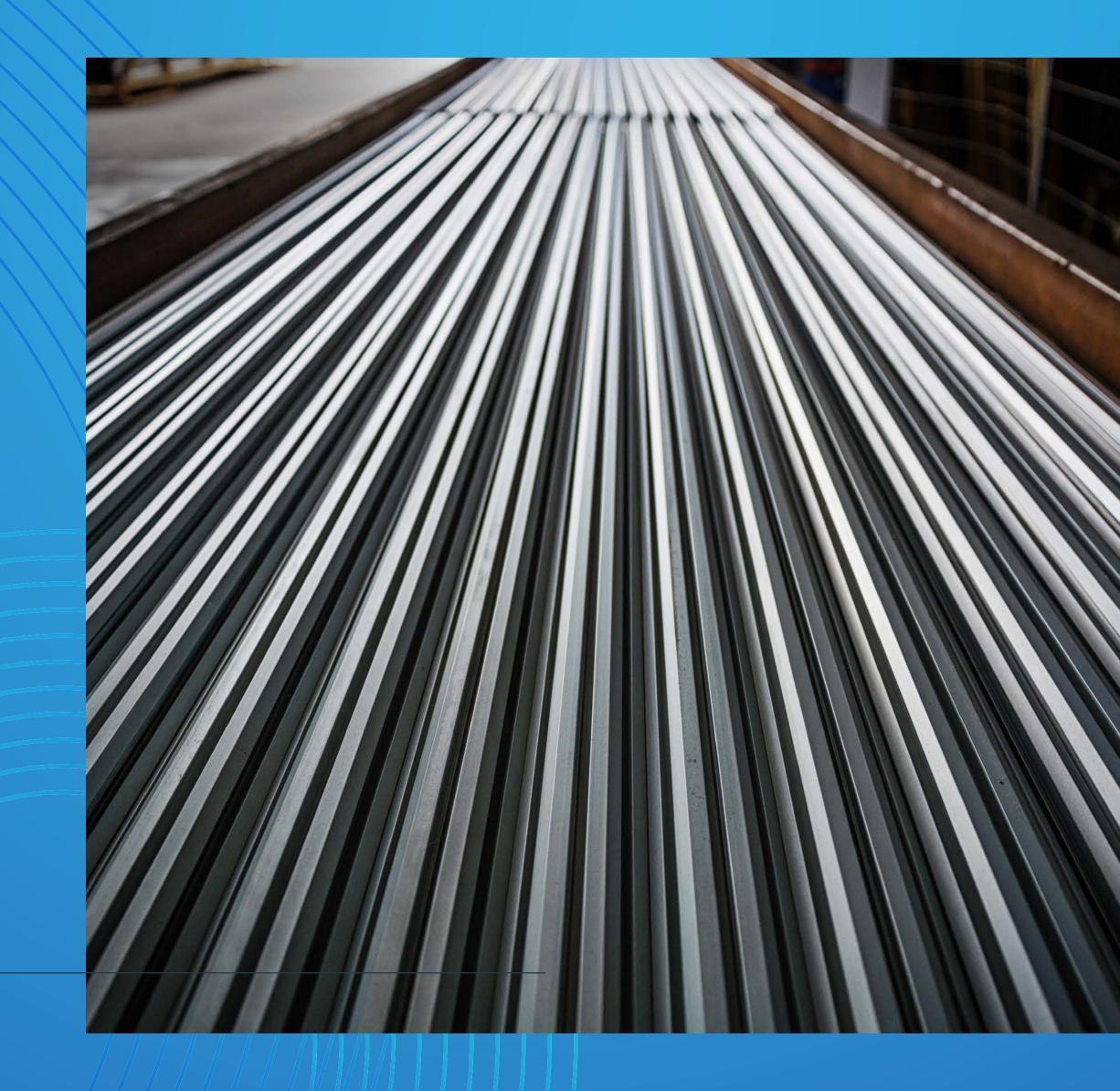
CONVEYOR DESIGN VALIDATION WITH STATIC LOAD

Mangal Industries' Engineering & Automation SBU specializes in the design and development of conveyor systems tailored for diverse applications. Recently, the SBU collaborated with Digital Engineering Solutions to meticulously examine and authenticate a conveyor system designed specifically for the intralogistics movement of batteries.

PROBLEM STATEMENT

Critical elements like static load, dynamic load, and vibration load play a pivotal role in shaping the conveyor's design. It's imperative to ensure the system can endure these forces, mandating comprehensive engineering and simulation via cutting-edge software tools. This meticulous process ensures the conveyor system delivers optimal performance and reliability in practical applications.

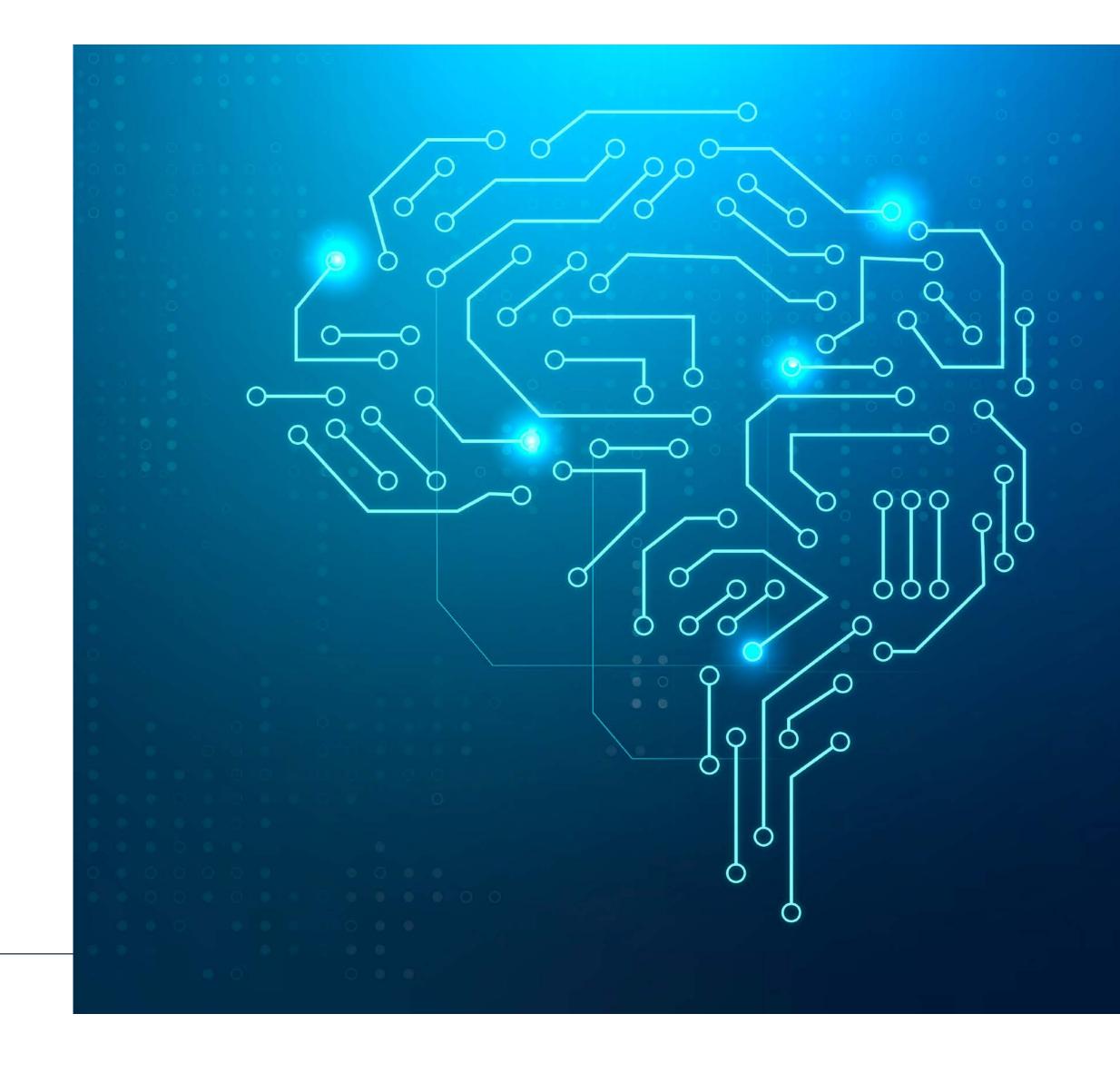


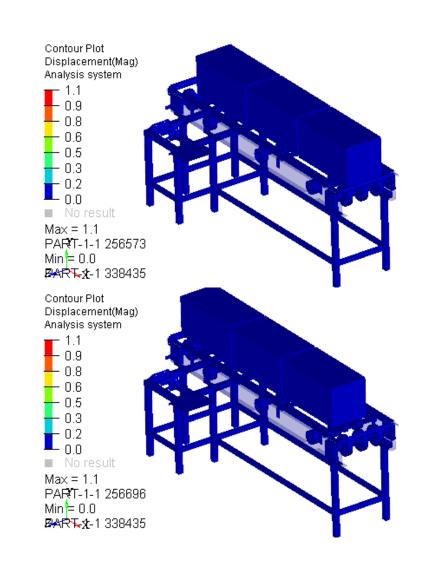
OBJECTIVE

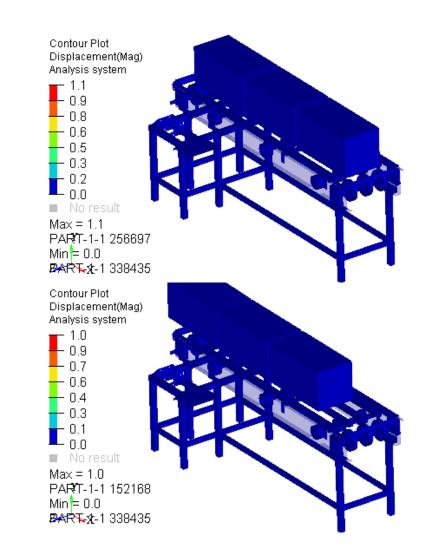
To analyze stress distribution on the conveyor structure, considering both the weight of the conveyor and the batteries it transports.

APPROACH

The stress distribution on the conveyor structure is analyzed using Abaqus simulation software, considering various positions of batteries along the conveyor.







OUTCOME

Stress distribution falls within acceptable limits, ensuring that the design meets safety criteria and is structurally sound for operational use.

Mangal Industries Engineering & Automation SBU's collaboration with Digital Engineering Solutions has led to the meticulous examination and authentication of a cutting-edge conveyor system designed for the seamless movement of batteries.

We invite you to embark on a journey of innovation and excellence together. Connect with us today to explore how our tailored solutions can transform your business.

E: nrpp@amararaja.com

M: +91 93817 29292

W: mangalindustries.com