

Summary

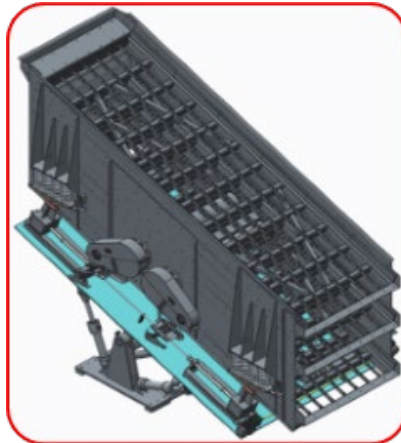
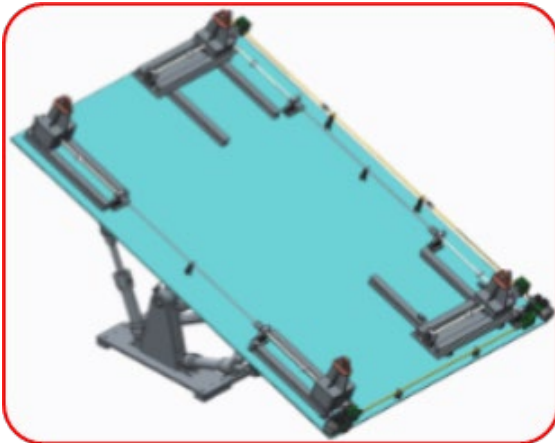
Project Name: Tooling: Test Cell Design for Life Cycle

Scope: Conceptualization & Detail Design of Test Cell Design for Life Cycle Testing

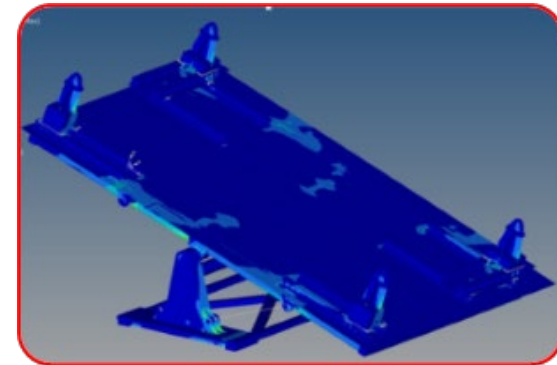
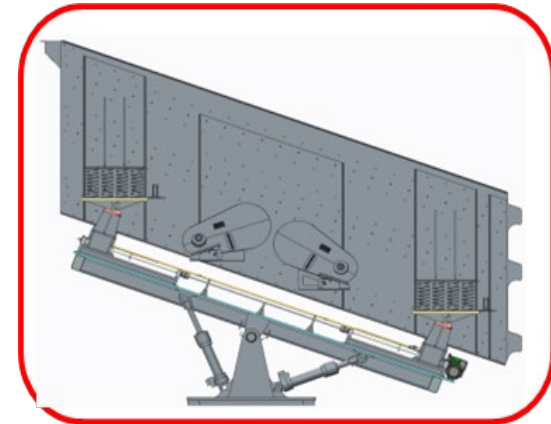
Software: Creo, Ansys

Vibratory Screens Test Fixture

- Conceptualized & designed a testing fixture for vibratory screens.
- Designed to test 15 different sizes of vibratory screens on a single test fixture.
- Designed to vary angle from 0 deg. to 30 deg. to accommodate for any future changes of design of vibratory screens.
- Fixture adjustment to match different type of screens with power operated gearboxes, lead screws & electro hydraulics.



Vibratory Screens Test Fixture for Life cycle test



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Development of a Spreader Test Stand

- Housing provisions to check external dimensions, system dimensions, position and orientations.
- All spreader functions such as telescoping, side shift, locking separation.
- It should be able to simulate different corner casting positions and deviating positions due to container offset and linking.
- And also, it should simulate Load application in different scenarios
- Should meet all Safety criteria

Highlights

- Manual Calculations to arrive at approximate Structural Cross Sections
- Devise concepts for performing various Tasks, Safety & Protection systems (Mechanical, Hydraulics and Electrical System)
- FE Analysis for Structure – System Level
- Electrical Wirings Accommodation , Synchronized Hydraulic Circuit design
- Manufacturing Drawings generation

