DESIGN AND MANUFACTURE OF LIFTING DEVICES

EL ES DE Engineering undertakes the design and manufacture of a wide variety of bespoke lifting devices for our clients.

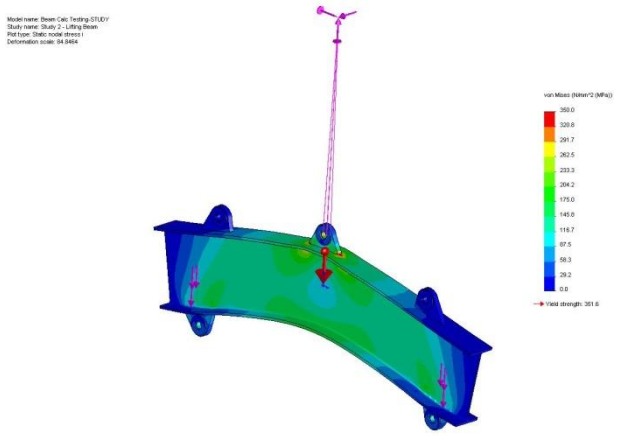
This ranges from simple lifting beams with 2 lifting pints, to adjustable combination lifting/spreader beams with multiple lifting points. Other devices may need to be adjustable in length or carry unconventional loads, such as c-hooks, fork tines, bins or workboxes.

Most commonly, our clients will request the design and manufacture of a lifting beam or spreader bar to their specific requirements, including WLL, length and head height just to name a few.

EL ES DE's engineering team will then produce a design that meets all relevant standards such as AS4991.

The challenge is always to maintain the highest level of safety in the design, while maintaining the lightest and most cost effective structure.

Solidworks Simulation finite element analysis is used to perform optimization of the structural components.



Part of the design process utilises Solidworks Simulation FEA

The manufacturing process requires that EL ES DE Engineering utilises its vast experience in materials and manufacture, in order to maintain the highest quality of welding and fabricating. Not only to meet the relevant standards, but also our own high standards of quality and safety.

Combination beam awaiting use on-site