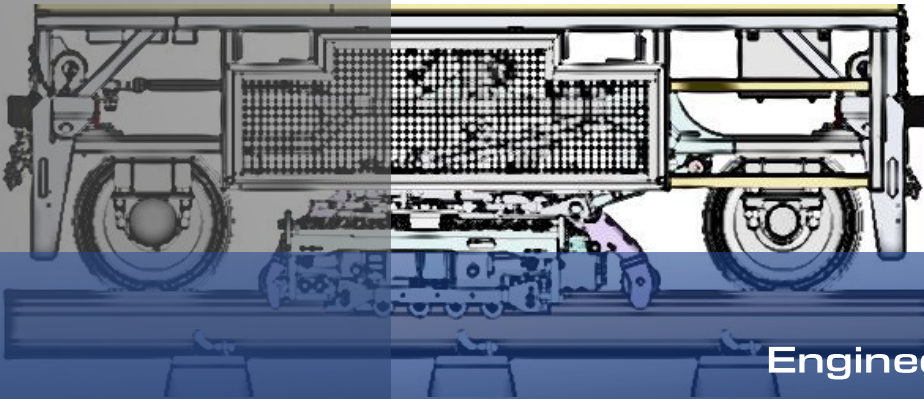


clear thinking
better solutions



CASE STUDY

Engineering Design Services

COMPANY

Gemco Rail

CHALLENGE

- LC was approached to redesign the tool clipping head on a new E-clip machine in order to improve the clipping reliability and performance
- Key requirements included simultaneous engagement or removal of 4 clips at a time on a single 1 sleeper every 6 seconds, and accommodating a varying gap of up to 15mm between the sleeper and the rail
- Additionally the new clipping head design was constrained to retrofitting to the existing machine with minimal impact and modification



LC PROVIDED

- A new and innovative mechanism and component design integration
- Engineering calculations and comprehensive drawings for manufacture
- Certification of select components to applicable Standards
- Commissioning documentation, risk assessments and operating manuals

RESULT

- Field trials resulted in a 99.99% functionality success rate
- The project was delivered on time and budget
- Certification of certain machine aspects was achieved

