



PROJECT REFERENCE

PROJECT NAME:

Z CAR BOGIE FRAMES SUPPLY CONTRACT

LOCATION: Melbourne, VICTORIA

CLIENT: V/Line / Bombardier Transportation

STATUS: Completed

TIME OF ASSIGNMENT: 2012 TO 2016

CONTRACT VALUE: >\$3.0 mil

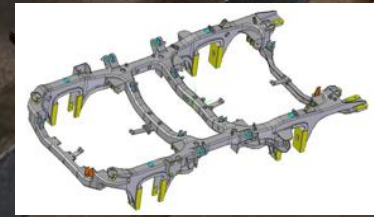
SCOPE OF WORK: Design, Cast, Machine, Assembly, Test, Inspect, Deliver

PROJECT BRIEF: REVERSE ENGINEER, IMPROVE , MANUFACTURE

Lacking Drawings and Specification - reverse engineer Bogie Frame from an original & manufacture replacements for fleet of passenger carriages

The project consisted of:

- 900 hours of 3D scanning and drafting
- Selection, audit and qualification of suitable manufacturing partner
- Training and guidance to improve foundry practises and technology to worlds best
- Computer modelled casting simulations
- Pattern manufacture – 3000 hours
- Approximately 190,000 kg total project weight
- Intensive in-house metallurgical analysis, inspections, testing and product qualification.
- 64 Bogie Frame, Bogie Bolster and Spring Plank sets



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