

CASE STUDY

Intercity Railcar Modifications

LOCATION: Portlaoise, Ireland
CLIENT: Irish Rail
DATE COMMISSIONED: October 2015



Introduction

Irish Rail having purchased a further fleet of 57 Intercity railcars (ICR) formed up by 19 x 3 car sets, which were identical to their existing operational fleet of 177 Class 22000 railcars, sought a partner to modify, test and commission the units for continued and effective service.

The fleet, which was manufactured in South Korea by Hyundai Rotem, was shipped to Ireland in batches.

Having competitively tendered for the works, Global Rail Services were selected as the contractor of choice to undertake all modification and warranty work, inclusive of testing, commissioning and shakedown running, providing a 24-month warranty for their service.

The Works are necessary for the continuous improvement, upkeep, continued reliability and safe operation of these cars, which are currently being used in Irish Rail's passenger service operations

The Deliverables

Global Rail Services have a fully competent in-house workforce and have qualified professionals in Electrical and Mechanical Engineering, these skills were utilised on a 24/7 basis throughout the contract. The scope includes:

- ① Full test, commissioning and rail vehicle modification works including electrical and mechanical upgrades to the vehicles under the direction of IÉ's ICR Project Team.
- ② Works both day and night, 7 days a week, with resources rostered as required to achieve weekly works program.
- ③ Full working understanding of:
 - Power operated sliding plug doors
 - Fail safe train control electrics
 - Electro pneumatic 2 pipe braking systems
 - Fault finding/rectification on railcars
 - Computer based diagnostic programmes

The Benefits

By appointing Global Rail Services as their track engineering contractor with a large in-house workforce, Irish Rail procured a contracting organisation that not only delivered their project defect free, but one that were able to interface with others and deliver a complex project on time on their behalf.

Having their roots in railway engineering, also aided access planning and logistics and their accredited management systems, that work in accordance with certified bodies across safety, and the environment, provided the client with a project of the highest quality.