

# Bombardier - Train Maintenance, Wakefield

Bombardier Transportation is the rail equipment division of the Canadian firm, Bombardier Inc. Bombardier Transportation is one of the world's largest companies in the rail-equipment manufacturing and servicing industry. The division is headquartered in Berlin, Germany.



Bombardier Transportation produces a wide range of products including passenger rail vehicles, locomotives, bogies, propulsion, and controls, in addition to offering a number of services.

## The Brief

Working with the M&E contractor, Gradwood, JET developed an effective solution to meet the specific requirements of Bombardier's train commission sheds at Crofton in Wakefield.

The sheds, which were only temporary, had the added difficulties of an inflatable roof and sunken maintenance pits for access to the underside of trains.

## The Solution

JET developed a stand alone system with its own controls that could be dismantled and reconstructed when the building moved. An oil fired air handling unit was located outside to maximise the internal operational space. The building is continuously monitored for air quality, with the system purging exhaust fumes and providing free summer cooling.

The success of phase 1 resulted in JET being uniquely specified for phase 2, which required the integration of the first facility with the second commissioning facility.

## Specific requirements

- Air quality sensors
- Free summer cooling
- Oil fired AHU
- Temporary structure

## Technical Data

Data	Production
Length (m)	160
Width (m)	10
Average height (m)	6
Floor area (m <sup>2</sup> )	1600
Volume (m <sup>3</sup> )	9600
Heater types	1 x Indirect Gas