



Rolls Royce - Heathrow

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Client

Rolls Royce

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Contractor

Winvic Construction

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Steelwork Design

Caunton Engineering

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Engineer

Capita Symonds Limited

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Steel Tonnage

600 tonnes

Rolls Royce, the global power system company, constructed a new London Heathrow Service Centre. The facility employs up to 80 people, with 40 transferred from the existing Rolls Royce Heathrow facility, which it replaced. The new facility provided specialist maintenance and support services for commercial aero engines. Caunton was delighted to have designed, supplied and erected 600 tonnes of structural steelwork for this development.

The facility included two new buildings, a state of the art engine workshop and an engine storage facility, which totals nearly 95,000sq.ft. This is four times larger than the original facility, which enabled teams to work on up to 13 aero engines at any one time, double what was previously possible. Coincidentally, Caunton supplied the steelwork for the Trent Engine test-bed back in 2006.

The engine workshop is 60 metres wide at its largest point by 100 metres long and was an asymmetric portal split into 40 metres and a 20 metres span, standing 16 metres high at the ridge, utilising faceted rafters to achieve the large radius curved roof. Caunton manufactured the large plate girder columns in-house, which support the ridge and one side of the heavy 37 metres span, 20 tonnes capacity Demag gantry cranes. The Demag cranes incorporated an interesting latching system, which allowed the crane bogey to travel off the main crane beams onto branch tracks to enable seamless loading and offloading of complete engines in the adjacent transportation stand. Caunton supplied the main crane gantry rails and latching crane support steelwork.

The engine storage facility is a 40 metre square structure adjacent to the engine workshop and followed the same aesthetic design concept as the larger unit.

Caunton Engineering Ltd.

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