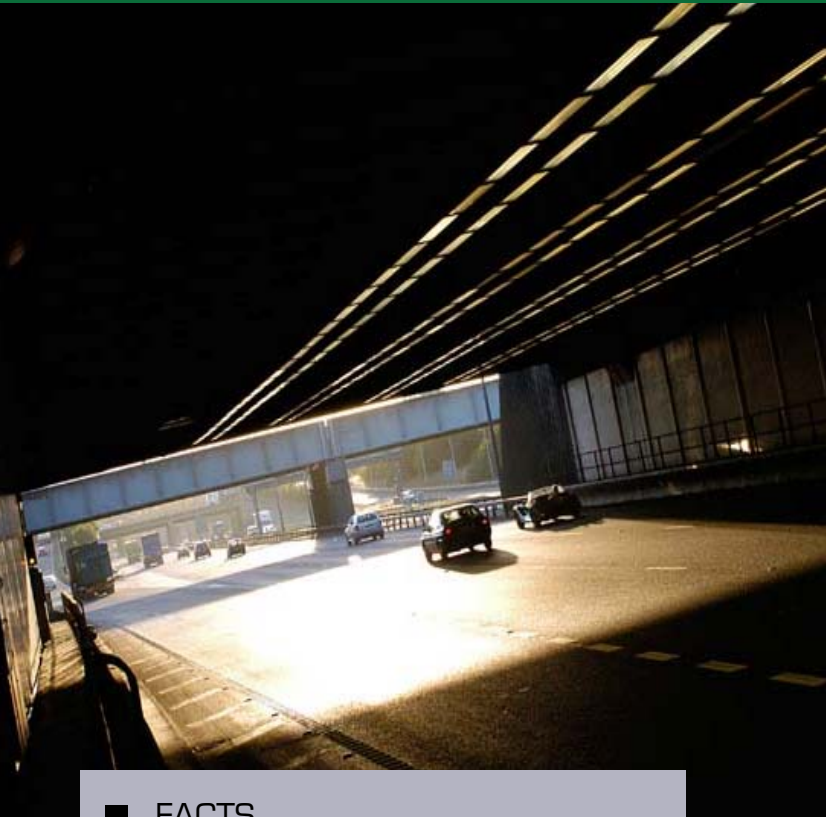


First for innovative Saccardo jets on a road system



Fläkt Woods fans are being used with a Saccardo jetting concept on an M25 road tunnel contract. The project is to supply replacement ventilation fans for the refurbishment of the Holmesdale Tunnel on the M25 and fitted with special nozzles to accelerate the air through slots in the tunnel roof.

■ FACTS

Customer:

Highways Agency, United Kingdom

Need:

Customised and energy efficient ventilation system for road tunnels

Solution:

Fläkt Woods JM Aerofoil Axial Fans and Saccardo Jetting Concept



Significant cost savings in terms of fan horsepower requirements and ventilation space

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The work carried out by Costain Limited on behalf of the Highways Agency is necessary because the mechanical and electrical equipment installed at the time of construction are in need of replacement.

This is the first time Saccardo jets have been used on a UK road system, and their use was necessary because the existing system and its upgrade would not fit in the tunnel with the extra lane that is under construction.

The Saccardo nozzle system operates on the principle that a high-velocity air jet is injected longitudinally into the tunnel to induce a high volume airflow in the tunnel. For this to be successful, the fans have to be carefully matched to optimise performance. The system uses blocks of JM Aerofoil axial fans, 5 in parallel for each tunnel, and fitted with special nozzles to accelerate the air.

Fläkt Woods was asked to carry out preliminary design thanks to their extensive tunnel ventilation experience.

The use of Saccardo nozzle enables clients to customise the longitudinal ventilation system so that it can incorporate the most beneficial aspects of booster fan systems and central ventilation systems. The implementation of the customised ventilation system permits significant cost savings in terms of fan horsepower requirements and ventilation space.

The fans for the Saccardo system are not located within the tunnel but in a dedicated plant room; this means that tunnel closures are not necessary in order to carry out maintenance.

JM Axial Fans

- Fully adjustable die cast aluminium impellers
- High energy efficiency
- AMCA Certified
- Low noise levels
- Multiple blade configurations for optimum performance to duty

Fläkt Woods Group

Fläkt Woods is a global company providing solutions for ventilation and air treatment for buildings as well as fan solutions for Industry and Infrastructure applications.

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