



BENTLEY MOTORS

CW1 House, Crewe

Mansfield Pollard Air Handling
Project Profile

OPTIMUM SUSTAINABILITY

THE JOURNEY HAS ALREADY BEGUN

Mansfield Pollard and Bentley share a vision, one where manufacturing benefits the global environment and one in which the businesses become the most **sustainable** brand of choice in their respective markets. A vision where experienced engineers and craftsmen continually embrace new technologies and drive towards a more sustainable future.



BEYOND 100

An initiative known as Bentley's **BEYOND 100** is all part of the drive to ensure that the business builds on the current **CARBON-NEUTRAL** status of its factory in Crewe. In order to make this future a reality, the full supply chain must follow the same path to sustainability to become **CARBON-NEUTRAL END-TO-END** by 2030, and climate positive from then on.



Mansfield Pollard are the stand-out partner...



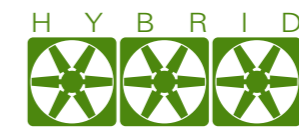
Only supply partners with **IMPECCABLE SUSTAINABILITY CREDENTIALS** were chosen to develop the new P1 factory extension at the flagship home of Bentley at CW1 house in Crewe & Mansfield Pollard were the standout choice.

Bentley Motors and Mansfield Pollard

MAXIMUM PERFORMANCE



both brands have striking similarities including a drive to combine the highest levels of energy efficiency with maximum unit performance.



Hybrid Fan Array

Achieving 8%-15% higher energy efficiency than plug fans.



Ultra-low Leakage

Fully seam welded interior and exterior to class L2.



Heat Recovery

5.5m sectional thermal wheels to maximise energy recovery.



Energy Control

High efficiency energy recovery and variable speed fans.

PROJECT HIGHLIGHTS

Two ultra-high efficiency air handling units were designed, manufactured and installed to provide over 50m³/s of fresh, clean air into the assembly area. Each unit was fully seam welded inside and out to achieve an air leakage class in excess of **L2**. The focal point of the system was the creation of a **HYBRID FAN ARRAY**. Designed using the latest technology in centrifugal fans with multiple discharge outlets and static system efficiencies of up to 78% (equivalent to 8%-15% higher energy efficiency than 'best-on-the-market' traditional plug fans).



Bentley Motors and Mansfield Pollard



AIR HANDLING

BY MANSFIELD POLLARD

ENTITLED