

Case Study – Hooten Bio Power



Project Overview:

Bespoke Acoustic Solutions Limited (BAS) recently completed a groundbreaking project at Hooten Bio Power in St Helens. The project involved the design, manufacturing, and installation of a large acoustic enclosure to mitigate noise generated by four process fans, which had been causing significant disturbances. Directly appointed by the client after extensive site discussions, BAS was tasked with providing a solution that would effectively reduce noise levels without compromising production operations.



Client Collaboration and Requirements:

The client, facing noise challenges identified by their in-house engineer, sought BAS's expertise to address the issue. Through collaborative discussions with the client's design and production teams, BAS was entrusted to deliver a solution that would meet the specific noise reduction requirements while ensuring minimal disruption to production activities.

Bespoke Acoustic Solutions Limited

Unit 12 Shield Drive, Wardley Industrial Estate, Worsley, Manchester, M28 2QB

T | 0161 804 4440 E | contact@bas-ltd.co.uk W | bas-ltd.co.uk

Registered in England No. 10866964.



Project Scope and Challenges:

The scope of the project was significant, with BAS tasked to design, manufacture, and install the largest single enclosure to date. Measuring 35m in length, 4.5m in width, and 5m in height, the enclosure presented unique challenges in terms of design, construction, and installation.



Engineering Expertise and Solution:

BAS's engineering team provided comprehensive advice on the construction design, ensuring the enclosure effectively managed the heat loads generated by the process fans. An independent structural engineer was appointed to develop a cost-effective design that complied with the latest international standards, guaranteeing structural integrity and durability.

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Installation Process and Operational Success:

The installation of the enclosure was meticulously planned and executed during a routine maintenance shutdown, minimizing disruptions to production activities. Upon completion, the enclosure successfully reduced noise levels to within acceptable limits, allowing for uninterrupted operations while addressing the noise concerns effectively.



Collaborative Success

The project's success can be attributed to the seamless collaboration between BAS's engineers, the client, and their design team. By leveraging collective expertise and working closely with the client throughout the project lifecycle, BAS delivered a tailored solution that not only met but exceeded expectations.

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**Conclusion:**

The Hooten Bio Power project exemplifies Bespoke Acoustic Solutions Limited's commitment to excellence in noise control solutions. Through collaboration, innovation, and meticulous attention to detail, BAS continues to set new standards in the industry, providing clients with effective solutions tailored to their specific needs. As noise control challenges evolve, BAS remains dedicated to delivering cutting-edge solutions that enhance operational efficiency and promote a conducive working environment.

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