

Custom manufacturing & design services

From ebm-papst UK

ebmpapst

engineering a better life



Comprehensive Manufacturing *and Design Services*

We offer a specialised 'one-stop' outsourcing solution, enabling you to transfer specific production processes directly to us.

Our custom manufacturing & design service includes comprehensive in-house design and manufacturing capabilities such as sheet metal fabrication, cable assembly, connectorisation, box build, assembly, and testing. Our dedicated Engineers excel in mechanical design, electrical and electronic design, and production engineering.



Scope

Our projects range from simple to complex. We can work from full drawings and BOMs, or start with a basic sketch or idea. A dedicated Project Engineer will be assigned to your project.

Proposal & quote

We'll then provide you with a detailed quotation based on the expected quantities.

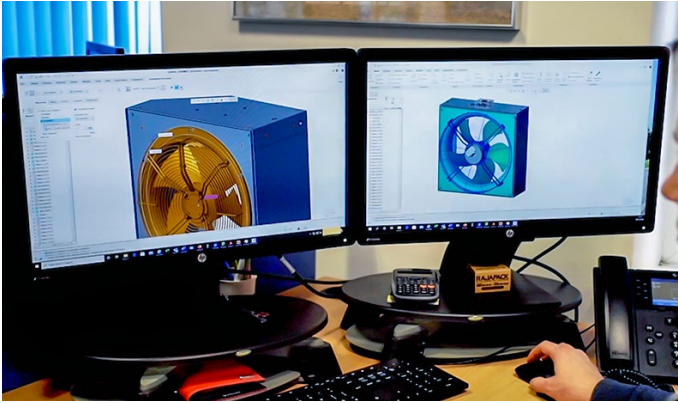


Design review

Our Design Engineers will collaborate with you, using your specifications to prepare the project for manufacturing.

Prototype

Depending on the complexity, we'll create a prototype.



// We take immense pride in offering an exceptional contract manufacturing and design service, tailored to your unique needs. With decades of experience, our team of skilled mechanical and electrical Engineers leads the way in innovation, ensuring quality and excellence across all projects.

Whether it's HVAC, Telecoms & Electronics, Transport, or the Science & Medical sectors, our expertise guarantees that every project meets the highest standards. //

**Jamie Slowgrove,
Managing Director**

Refine

For more complex projects, multiple iterations may be required to refine the design.

Production

Upon receiving your order request, the part number is entered into our Production MRP system and scheduled for delivery. Lead times typically range between three to six weeks.

Design freeze

Once the design is approved, we'll finalise the production documentation and assign part numbers.

e projects
produce

Simplify, enhance and improve *your manufacturing capabilities.*

Simplify

Reducing supplier base

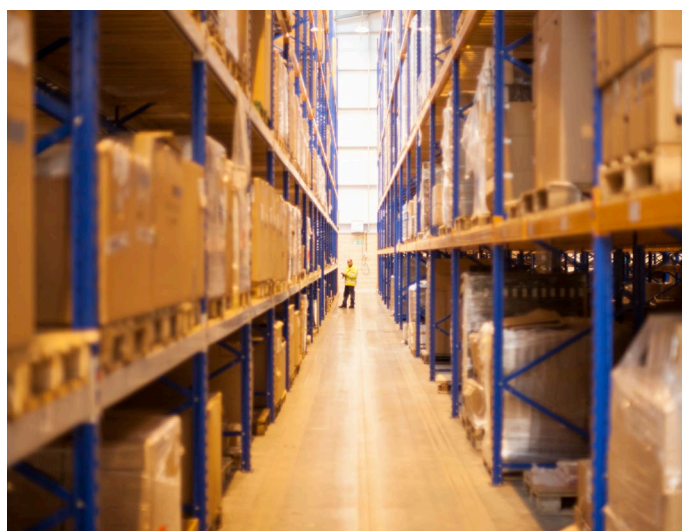
Streamlining to a single supplier for assembled products simplifies your procurement process. This reduction in suppliers minimises management efforts, leading to a more efficient and seamless operation.

Enhancing lead time

Producing a complex product often requires meticulous stock management. By partnering with our sub-contract manufacturing service, you eliminate the need for multiple suppliers and stock management. This streamlined approach ensures components are available when needed, improving product flow and reducing lead time from order to delivery.

Reducing inventory

Transitioning from stocking numerous components, to receiving a finished product or sub-assembly saves valuable storage space and reduces the resources needed for assembly. This efficiency leads to a more organised and cost-effective production process.



Enhance

Assembly

Our assembly services encompass both electrical and mechanical, ranging from small, intricate sub-assemblies to complete products. Each project is built to a high-degree of accuracy and finish by our highly trained and experienced operators. With a strong emphasis on quality and procedural discipline, we strive to exceed customer expectations, ensuring exceptional results every time.

Flexible workforce

Outsourcing to off-site manufacturing helps smooth out demand fluctuations. Our flexible workforce is readily available to meet your needs, allowing your in-house team to focus on high-value activities and adapt to changing customer demands with ease.

Renewing focus on Sales & Marketing

Your team is your most valuable asset. By outsourcing non-core activities, your workforce can concentrate on what they do best-driving sales and marketing efforts. This shift enables a more agile response to market changes, enhancing overall productivity.

Improve

Increasing product cost visibility

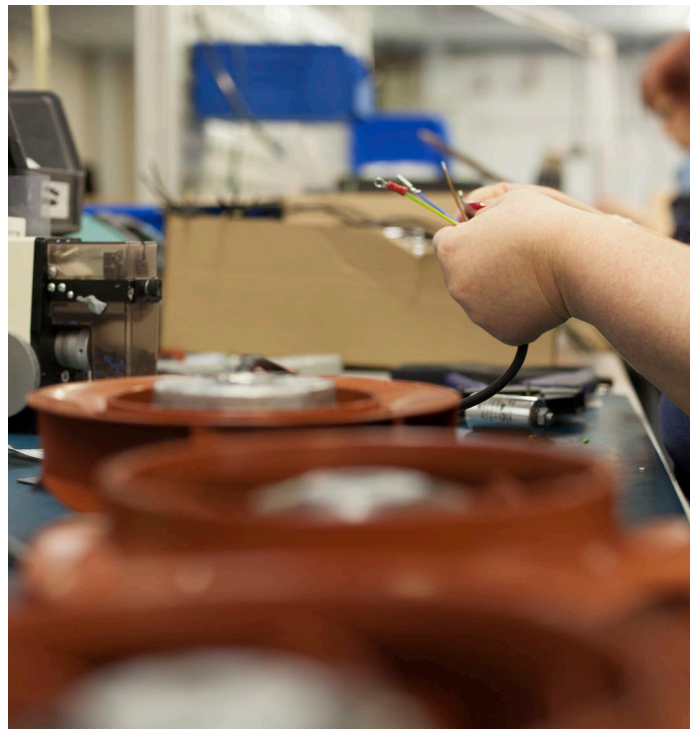
Tracking the true cost of production can be challenging, due to fluctuating component prices and hidden labour costs. Our services consolidate those expenses, providing a clearer understanding of your product's total cost and enhancing financial transparency.

Simplifying cash flow

Managing your finances becomes simpler with one consolidated invoice from a single supplier for your product or sub-assembly. This reduces the administrative burden of tracking multiple purchases and payments, making the production process smoother and more efficient.

Supplier relationships

When you partner with us, we take on and maintain all supplier relationships. This gives you a singular contact for all of your manufacturing requirements.



Engineering

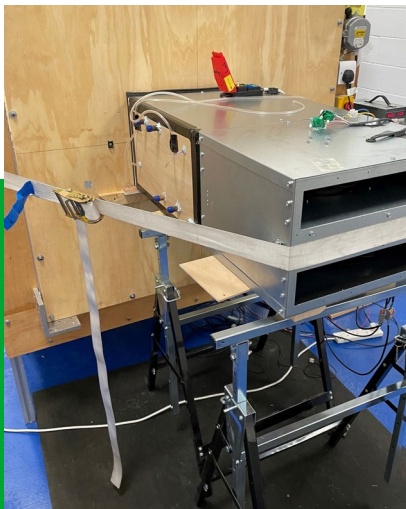
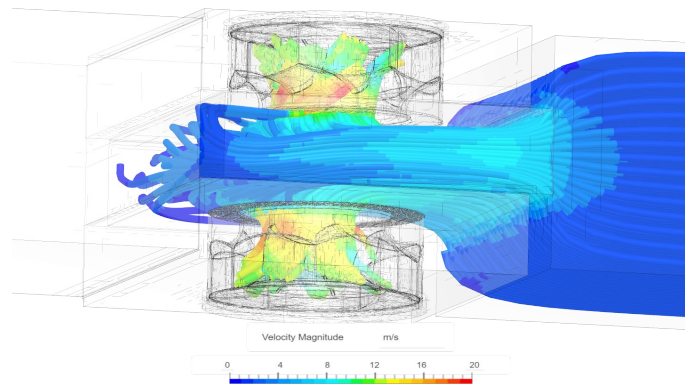
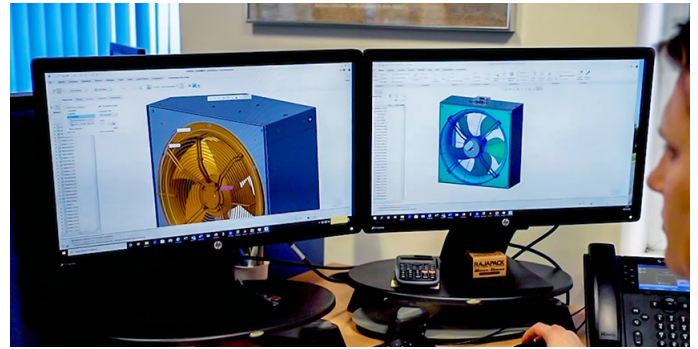
Designing your application.

Product optimisation

To ensure the best application of fans, or to assist our clients to optimise their product, our engineers have at their disposal computer simulation tools and a physical laboratory. Our airflow measurement laboratory and acoustic measurement facilities based in Chelmsford are available to find solutions and opportunities for improvement.

Supported with simulation and modelling, our engineers can offer suggestions to improve the performance, lower the power consumption and reduce the noise level. Physical measurements and computational fluid dynamics (CFD) complement each other. Physical measurement provides means to validate CFD, and then CFD can research and compare multiple ideas, narrowing them down to one or two solutions.

With the in-house 3D modelling facilities, sheet metal fabrication and workshop, the ideas and solutions can be fabricated in a short time, then verified with measurements in the laboratory.



Operations

Building your application.

Tube bending

Our state-of-the-art tube bending service boasts a capacity of 63.5mm with a wall thickness of 2.5mm, and a maximum bending angle of 185 degrees. We expertly handle mild steel, stainless steel, and aluminium materials, and can form a variety of shapes including round and oval tubes, as well as box and rectangle sections.

Folding

Our precision folding capabilities include a 66-tonne press, accurate to within 0.2mm. We can handle mild steel up to 6mm thick, ensuring high-quality bends and folds for your projects.

Turret punching machine

Utilising our highly accurate punching machine, we achieve precision within 0.1mm. Our wide range of bespoke tooling allows us to punch a variety of materials, up to 3mm thick. Additionally, our forming capabilities provide versatile solutions for your custom needs.

Welding

We offer comprehensive welding services including MIG, TIG, MMA, spot welding, and brazing. Our expertise extends across a range of materials such as aluminium, mild steel, and stainless steel, ensuring strong and reliable welds for any application.

Cable harness

Our automated bulk wire cutting and crimping machinery is capable of processing cable diameters from 120mm² to 0.25mm². We handle various cable types, including 240V, 415V, and high-current DC cabling, ensuring precision and efficiency in your cable harness requirements.

Bespoke testing facilities

We provide bespoke testing facilities to ensure the function and safety of your products. Our testing services include, but are not limited to, dielectric and earth bond testing, offering peace of mind and compliance with industry standards.

Custom design consultation

Our team of experts are available for custom design consultation, offering tailored solutions to meet your specific needs. We work closely with you to bring your vision to life, ensuring high-quality and innovative results.



Digital

Managing your application.

Firmware & hardware electronics design

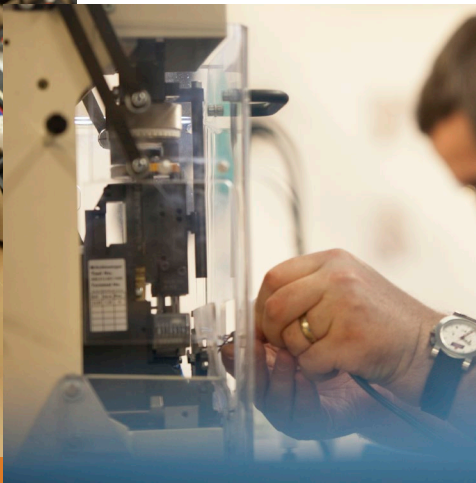
Our in-house electronics design and innovation team excels in creating cutting-edge solutions tailored to your specific needs. With expertise in the latest technologies and a commitment to excellence, our team delivers innovative and reliable electronic designs that drive success for your projects.

Controller and interface products

We offer a range of controller and interface products that are compatible with 0-10V/PWM and Modbus ebm-papst fans. Our products are designed to ensure seamless integration and optimal performance, providing you with reliable and efficient control solutions for your applications.

IoT Capability

Our IoT capabilities enable seamless data transmission to the cloud for monitoring fan status. This advanced feature allows for real-time tracking and analysis, ensuring proactive maintenance and enhanced operational efficiency for your systems.



www.ebmpapst.com

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ebm papst UK
Chelmsford Business Park,
CM2 5EZ, United Kingdom
+44 (0) 1245 456530
info@uk.ebmpapst.com