

Our Design Process



Define



Design



Deliver



Refine

"We guarantee to deliver you innovative and practical designs"



Engineering Design Experts

www.beneng.co.uk

OUR DESIGN PROCESS



Delivering you practical, commercial and innovative engineering designs for manufacture is at the very core of what we do.

We have the expertise to deliver often very **complex solutions within simple design**. This can only be achieved by working closely with you at each stage of our proven design process to **ensure success**.





1. DEFINE

This is a very important part of the project, **investing time at this stage pays dividends later.**

This is the stage where you tell us your needs, requirements, what you want to achieve and when. We will put all our expertise and knowledge to help you define how we can achieve your goals.

How it's done

We will meet with you and your team to understand your culture, identify the challenges and determine:

- The project's scope and limits
- Any special requirements
- Budgets and timescales
- Quality standards
- The information path and decision maker

What You'll Get

You will be provided with an **accurate project specification document** and a **quotation** for the Design stage.

Project management procedures such as communication, information request and design changes will help structure and contain the project, keeping it within budgets and on time.

"We put all our **passion** and **experience** to ensure we are all on the right path to **achieve success.**"

After accepting the quotation, the project will continue to the Design Stage.





2. DESIGN

With the project plan and specifications already defined, we'll apply all our **knowledge and expertise** in doing what we passionate about, turning challenges into innovative and practical solutions.

How it's done

INTERNAL

We will research and **generate concepts** and preliminary designs through our "team design sessions". These concepts and ideas will be thoroughly evaluated and critiqued by the team **identifying and developing improvements** and the assessment of concepts versus cost and manufacturability.

CLIENT

Your feedback and input is necessary at this stage for the **success of the project**. You'll be shown the proposals; these can be discussed with you through initially face to face meetings or through screen sharing conference calls.

This is where you can see our screens live while we talk and walk through the concepts with you, **saving you time and money** on travelling with all the benefits of live communication and feedback.



"Turning your challenges into
innovative & practical solutions."

What You'll Get

- Accurate 3D models. These could be delivered through 3D PDFs, eDrawing models and STEP files.
- Concept drawings in a PDF/eDrawings format.
- And any other information agreed at the define stage.



*"John Bennett **can always see a simple and practical solution** to every problem I put to him. The CAD drawings and 3D models he produces help me **win larger and more complex projects**"*

Mick Turner - MTS

The final design details requested will be carried forward to the Delivery Stage once you have signed off the design.



3. DELIVER

This next stage, is all down to us, so **you and your team can get on with running your business.**

How it's done

With the design agreed and signed-off we'll start finalising the **detailed design** such as fasteners, finishes, quality assurance and checking to **bring everything together**, ready for delivering it to you.



*"It has been a pleasure to work with the team at Bennett and it has **allowed us to focus on the core areas** of physics and electronics content of the projects."*

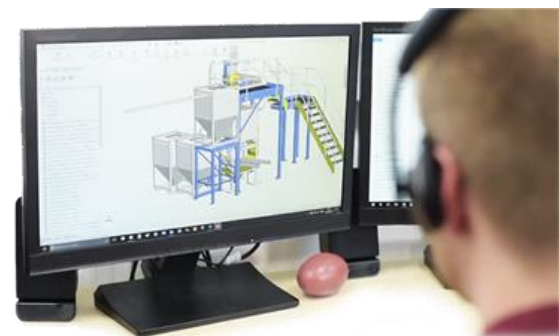
"We'll start finalising the detailed design so you & your team can get on with running your business."

What You'll Get

We know every project is different and so are its requirements, the final outputs could be anything from simple **3D models** to **complete components** or **fully installed machines**.

These can be:

- General assembly arrangements with detailed BOMs.
- Manufacturing drawings for the components.
- DXF files for profiling (CNC, laser, water cutting, ...).
- FEA validation and reports.
- Photorealistic renders for sales and marketing.
- Maintenance / Instruction manuals and posters.
- Video animations for sales or training.
- 3D files for additive manufacturing.
- Assembly and installation information.



Once delivered, we will be in contact for the final stage, Refine.



4. REFINE

Promoting **continuous development** is one of our core values. Project reviews are crucial as they help everyone understand what aspects of the project went well and if any improvements can be made to provide every client an even **better service**.

How it's done

This is the **project sign-off** stage and will be carried out by the relevant member from both companies.

First, we will have an internal review with the whole team, an **accurate and broad assessment** will be conducted on every area of the project. This information will be then passed to you when meeting with the "relevant member". It is an opportunity for an **open and honest** appraisal of how the project went and what **improvements** can be made in the **future**.

What You'll Get

The agreed outcome of the meeting will be registered into our review logs and **communicated** to the team. This way we will **ensure efficiency and adaptability** to you for future projects.

*"Very professional service with regular design reviews that ensured design was **right first time**."*

Phil Smith - LivaNova



"Project reviews help us to provide you with a better service."



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Find out more and see the case studies at

www.beneng.co.uk

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