

# Client Information Pack

Value Engineering



Machine Modernisation



Product Design & Development



Virtual Design Team



*"We guarantee to deliver you innovative and practical designs"*



Engineering Design Experts

[www.beneng.co.uk](http://www.beneng.co.uk)

# Table of Contents

<b>Introduction .....</b>	<b>1</b>
<b>Our offer to you (Services) .....</b>	<b>1</b>
Value Engineering.....	2
Machine Modernisation .....	3
Product Design and Development .....	4
Design Management – Your Virtual Design Team .....	5
<b>About Us.....</b>	<b>6</b>
<b>Our Design Process .....</b>	<b>7</b>
Define .....	8
Design .....	9
Deliver.....	10
Refine.....	11

# INTRODUCTION

"I am proud that we have developed an engineering design company that is passionate, innovative, experienced and easy to work with.

I hope you find this Client Information Pack useful, please contact me for a relaxed and informal chat about how we can assist you".

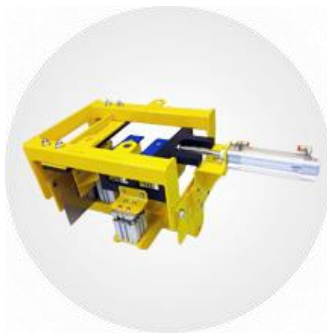
John Bennett - Director



## OUR OFFER TO YOU



Value  
Engineering



Machine  
Modernisation



Product Design  
& Development



Design Management  
"Your Virtual Design Team"



# Value Engineering



We deliver practical ways to improve your design by analysing functionality, performance and manufacturing processes to **reduce production costs** and **maximise your profitability**.

We do this by evaluating the number of parts, material selection and manufacturing processes. This ensures that **you will receive a successfully refined and improved design**.

## Your benefits:

- ✓ *Less Parts - Saving Costs*
- ✓ *Quicker Assembly*
- ✓ *Optimised material selection*
- ✓ *Maintaining and improving quality and function*

*"Optimising your designs by keeping it simple"*



*"The whole Bennett Engineering experience has been **first class** for us.*

*From the initial requirement discussions through to completion and hand over. The **communication, quality of design & service has been faultless**. We will use them again. "*

*Simon Woods – TecQuipment Ltd*

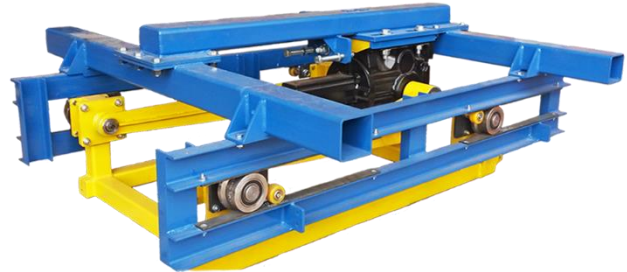




# Machine Modernisation

Benefit from our extensive mechanical and industrial engineering experience to help **improve and optimise** your manufacturing process, leading to an increase in the overall **efficiency** and **productivity** of your machinery. Replace obsolete or unreliable equipment with modern, **cost-effective solutions**.

Combining your knowledge with our experience, not only restores your equipment to its original operational state, but also make significant improvements in **quality, speed** and **profitability**.



*"Engineering improvements for reliability and efficiency"*

## *Your benefits:*

- ✓ *Increase machine uptime, reliability and flexibility*
- ✓ *Improve product quality & safety*
  - ✓ *Lower maintenance cost*
  - ✓ *Decrease operation risks*
- ✓ *Extend the life-cycle of your investment*
- ✓ *Reduce Waste*

*"Bennett Engineering provided a **quick and efficient service** which allowed Deritend to turn the work around with **minimal disruption**.*

*I can recommend them to anyone needing a **practical and professional service**."*

Mike smith – Deritend Group Ltd





# Product Design & Development



We help you develop products that are **innovative**, have **high functionality** and can be made profitably, enabling you to get to market **ahead of your competition**.

We take great pride in what we do and really enjoy the challenge of creating a successful product with you.

## *Your benefits:*

- ✓ *Designed for manufacture (DFM)*
- ✓ *Practical & innovative design solutions*
- ✓ *"Best in Class" products*

*"Developing ideas through  
innovation into practical designs"*



*"I know that **I can always rely on the team** at Bennett Engineering to come up with innovative solutions for improving my range of products.*

*They are easy and **professional** to work with and **respond quickly** no matter what the challenge."*

Richard Sutton - Hatton Systems Ltd



# Design Management “Your Virtual Design Team”

“Your Virtual Design Team” service is tailored to your individual needs, whether it's just a **concept design through to overseeing an entire project** or providing additional design capacity.

You get a team of **experienced professional engineers** who can be relied on to provide anything from accurate production data to representing you in front of clients.

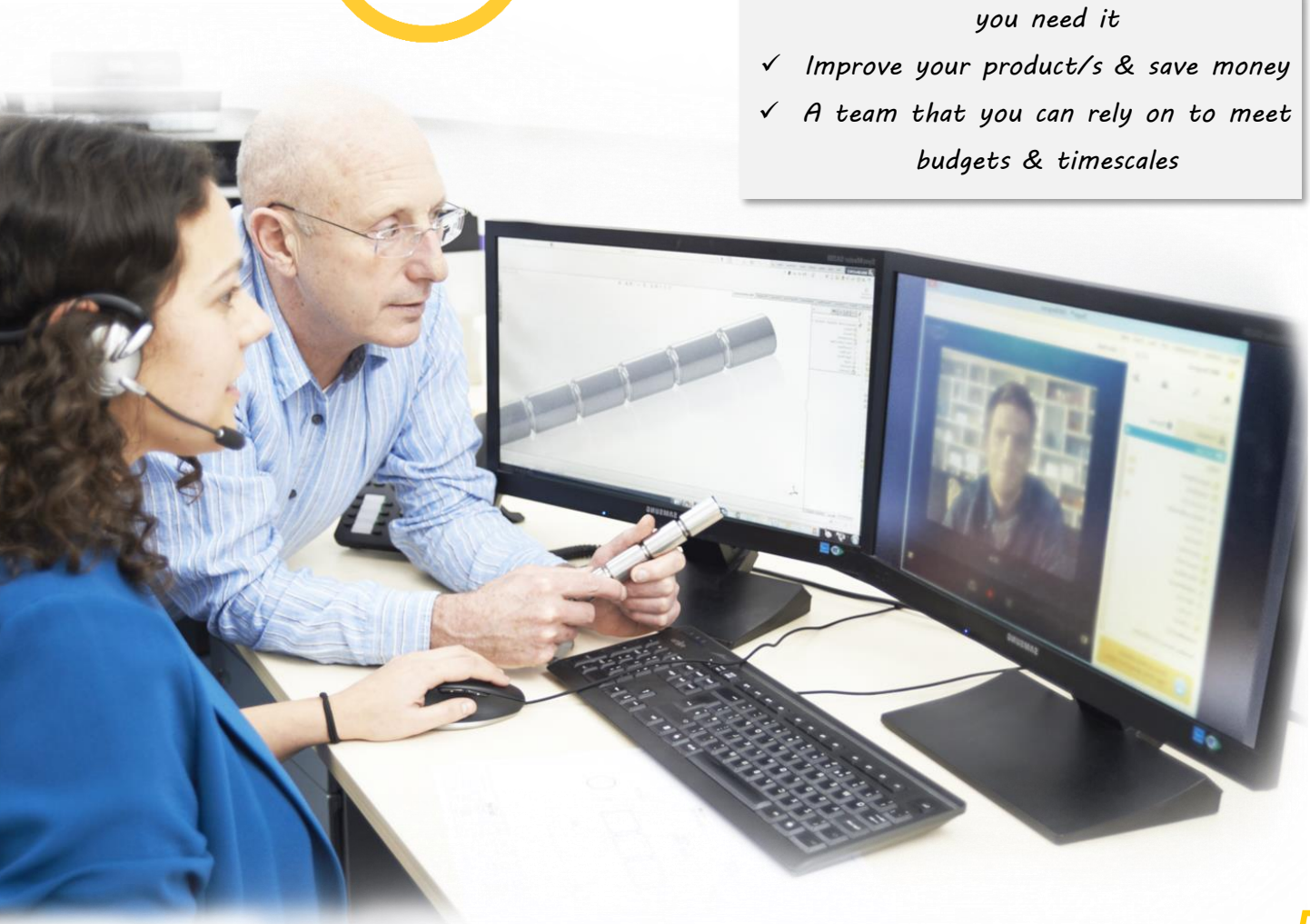
*“They really seek to meet all the project requirements and **give true innovative solutions** as a result. A great resource with a **high level of engineering ability** driving it forward.”*

Andrew Varley – QJS UK Ltd

*“Your partner to success”*

## *Your benefits:*

- ✓ *Enhance your ability & capacity with a professional & experienced design team*
- ✓ *Pay only for what you need & when you need it*
- ✓ *Improve your product/s & save money*
- ✓ *A team that you can rely on to meet budgets & timescales*



# ABOUT US

We are an engineering design consultancy with over **40 years' experience** between us of **designing for value engineering, machine modernisations & commercial products** for many industries.

So, that no matter how complex your design challenges are we combine our skills from multiple disciplines to provide you with **practical designs ready for manufacture**.

## THE TEAM

We are a close-knit team of professional engineers specialising in the design and development of a wide variety of products and industrial machine modernisation projects.

Our wealth of **experience** and **knowledge** spans many industry sectors from automotive testing, material handling, construction product and process manufacturing.

The fact we are a small specialist design consultancy means that you get our **personal attention**, communicating directly with us, saving precious time and a **quick turn around** when needed, taking products from conception to completion rapidly and accurately.

*"We have recently used Bennett Engineering to carry out utility design work for our flagship New Ibstock Factory production unit.*

*We have found their **staff to be safe, diligent, hardworking & punctual.***

*Their work **meets the high standards** expected of a prestigious new project such as ours.*

*We would not hesitate to recommend them for further work of this nature."*

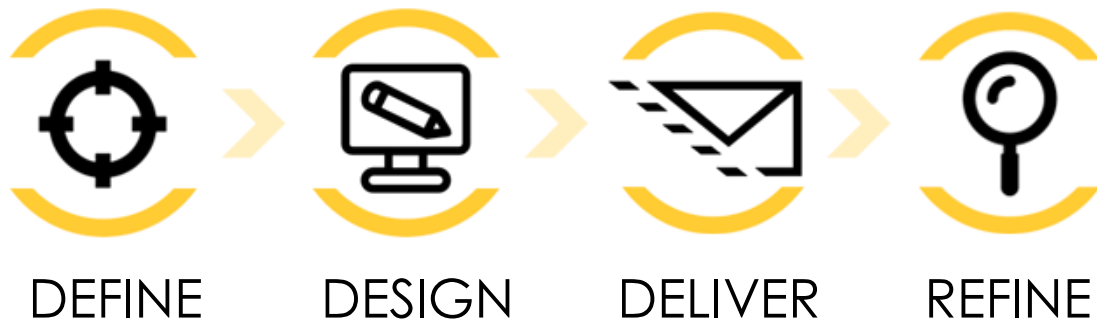
Peter Mann & Christopher Deacon – Ibstock Brick

**"We guarantee to deliver you innovative & practical designs"**





# 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 your 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."*

Nigel Atherton - JouleFusion

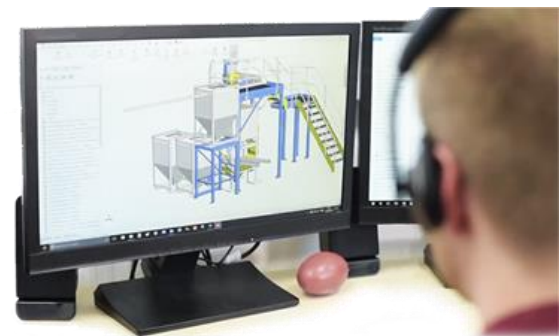
**"We'll start finalising the detailed design so you & your team can get on with running your business."**

### 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."**



Engineering Design Experts

*"We guarantee to deliver you innovative and practical designs"*

Find out more and see the case studies at

**[www.beneng.co.uk](http://www.beneng.co.uk)**

Bennett Engineering Design Solutions Ltd  
Unit 27, Loughborough Technology Centre, Epinal Way, Loughborough, Leicestershire, LE11 3GE  
Telephone 01509 363 060 Email [info@beneng.co.uk](mailto:info@beneng.co.uk) Web [www.beneng.co.uk](http://www.beneng.co.uk)  
Company N° 4951752 VAT N° 828294108 Registered Office C/O Chamwood Accountants, The Point, Granite Way, Mountsorrel,  
Loughborough, Leicestershire, LE12 7TZ