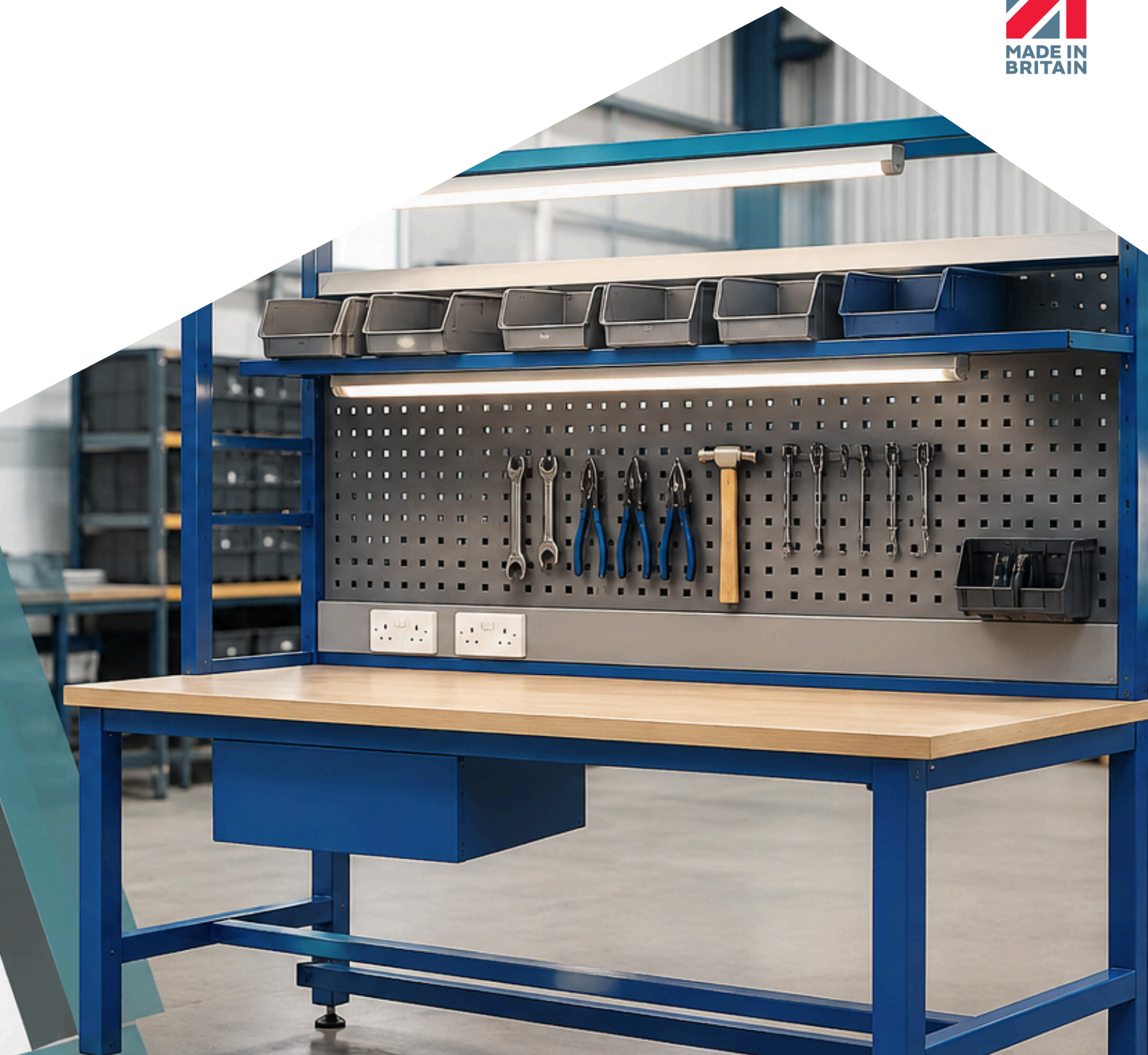
BESPOKE INDUSTRIAL LTD
DESIGNED. MANUFACTURED. DELIVERED.

THE COMPLETE GUIDE TO BESPOKE INDUSTRIAL WORKSTATIONS

HELPING UK MANUFACTURERS AND WAREHOUSES DESIGN SAFER, MORE PRODUCTIVE WORKSPACES



Every workplace is different, so why should every workstation be the same?
A bespoke industrial workstation is designed around the way your people work, creating a safer, more efficient and productive environment.
By tailoring every aspect of the workstation to your application, businesses can improve ergonomics, streamline processes and maximise the use of available space while supporting long-term operational performance.

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1.

Introduction

No two manufacturing facilities are exactly alike. Even businesses producing similar products often have different layouts, equipment, processes, production volumes, and safety requirements. As a result, a solution that works well in one factory may not be suitable for another.
Factors such as available space, material flow, workforce requirements, production methods, and future growth all influence the most effective solution. That's why standard, off-the-shelf products don't always deliver the best results.
A bespoke solution is designed around the specific needs of your operation, ensuring it fits your workspace, supports your processes, improves safety, and helps maximise efficiency. By understanding how your business operates through a detailed site survey, manufacturers can develop practical solutions that enhance productivity while supporting long-term operational goals.

A poorly designed workstation can lead to:

- slower production
- operator fatigue
- injuries
- wasted movement
- damaged products
- inconsistent quality

Whereas a bespoke workstation is designed specifically around:

- the operator
- the product
- the process
- the available space

2.

What is a Bespoke Industrial Workstation?

A bespoke industrial workstation is a purpose-built workspace designed around the specific needs of a manufacturing, assembly, inspection, packing, or maintenance process. Unlike standard workbenches, bespoke solutions are tailored to suit the workspace, equipment, and operator requirements.
They can include features such as adjustable heights, storage, lighting, power supplies, tool mounting, conveyor integration, and mobility options. Each workstation is designed to improve safety, enhance productivity, reduce operator fatigue, and create a more efficient working environment.

3.

Why Choose a Bespoke Workstation?

Feature	Standard Workstation	Bespoke Industrial Workstation
Fit for Purpose	Generic design for a wide range of applications.	Designed specifically around your process and operation.
Workspace Fit	May not utilise available space efficiently.	Built to maximise your available floor space.
Ergonomics	Limited adjustment options.	Designed around operators to improve comfort and reduce fatigue.
Productivity	Operators may need to adapt their workflow.	Optimised to streamline tasks and improve efficiency.
Storage	Fixed shelves and drawers.	Storage configured to suit tools, parts and consumables.
Integration	Limited compatibility with existing equipment.	Can integrate with conveyors, machinery and production lines.
Health & Safety	Standard safety features only.	Designed to address site-specific safety risks and compliance requirements.
Future Flexibility	Difficult to modify as requirements change.	Can be designed for expansion or future process changes.
Appearance	Generic industrial design.	Professional solution that reflects your operation and brand.
Long-Term Value	Lower initial cost but may require compromises.	Greater return on investment through improved efficiency, safety and productivity.

Why it matters

A bespoke industrial workstation is more than just a place to work. It's an investment in your people, your processes, and your productivity. By designing the workstation around your specific application, you can create a safer, more efficient workspace that supports both your current operation and future growth.

4.

Understanding the Work Process

An effective industrial workstation starts with understanding how the work is carried out.
Every manufacturing process is different, and the way materials, tools, products, and operators move through a workstation has a direct impact on safety, productivity, and efficiency.

Before designing a bespoke workstation, it is important to assess the complete workflow.
This includes how components arrive at the workstation, how they are assembled or processed, where tools and equipment are positioned, and how finished products leave the area.
Even small improvements to the workflow can reduce unnecessary movement, minimise manual handling, and improve operator comfort.

A well-designed workstation should support the natural sequence of tasks, keeping frequently used tools and materials within easy reach while ensuring there is sufficient space to work safely and efficiently.
Consideration should also be given to future production requirements, maintenance access, and integration with surrounding equipment such as conveyors, packing stations, or automated systems.

By taking the time to understand the workflow before designing a solution, manufacturers can create workstations that not only fit the available space but also improve productivity, reduce downtime, and provide a safer, more organised working environment.

5.

Ergonomics

Ergonomics is the science of designing workstations to suit the people using them. A well-designed industrial workstation improves operator comfort, reduces fatigue, and helps minimise the risk of work-related injuries.

Key considerations include working height, reach distances, posture, tool positioning, lighting, and material handling. Keeping frequently used tools and components within easy reach reduces unnecessary bending, stretching, and repetitive movements.

Because every operation is different, bespoke workstations can be tailored to both the task and the operator. Features such as adjustable working heights, integrated storage, and efficient layouts help create a safer, more comfortable, and more productive working environment.

Investing in ergonomic workstation design not only supports employee wellbeing but can also improve productivity, reduce errors, and enhance overall operational efficiency.

6.

Health & Safety Considerations

A well-designed industrial workstation should improve both productivity and workplace safety. As every application is different, workstation design should be based on a site-specific risk assessment that considers the tasks being performed, the working environment, and potential hazards.

Manual Handling – Position materials and tools to reduce lifting, reaching, twisting, and repetitive movements.

Musculoskeletal Disorders (MSDs) – Ergonomic design, suitable working heights, and efficient layouts can help reduce fatigue and the risk of injury.

Slips & Trips – Keep work areas clear and ensure cables, hoses, and materials do not create trip hazards.

Electrical Safety – Electrical equipment should be suitable for the application, properly maintained, and installed with safe cable routing.

Tool Storage & Cable Management – Dedicated storage and organised cable routing help reduce clutter, improve efficiency, and minimise hazards.

Housekeeping – Clean, organised workstations contribute to a safer and more productive workplace.

Emergency Stops – Where workstations interface with machinery or conveyors, emergency stop devices should be clearly visible, accessible, and unobstructed.

Risk Assessments – Every workstation should be assessed to identify hazards and ensure appropriate control measures are in place.

Relevant UK Legislation - Depending on the application, workstation design may need to consider legislation and recognised guidance, including:

- Health and Safety at Work etc. Act 1974
- Management of Health and Safety at Work Regulations 1999
- Manual Handling Operations Regulations 1992 (as amended)
- Provision and Use of Work Equipment Regulations 1998 (PUWER)
- Electricity at Work Regulations 1989
- Workplace (Health, Safety and Welfare) Regulations 1992
- HSE guidance on ergonomics, manual handling, and risk assessment

Specific legal requirements will depend on the workplace, equipment, and intended use. A competent site assessment should always be carried out to determine the most appropriate safety measures.

7.

Types of Industrial Workstations

Examples:

- Assembly benches
- Packing stations
- Inspection stations
- Laboratory benches
- ESD workstations
- Fabrication benches
- Welding tables
- Maintenance stations
- Cleanroom workstations

8.

Material Options

- Steel
- Stainless Steel
- Aluminium
- Laminate worktops
- Solid timber
- Phenolic tops
- HDPE
- Chemical resistant surfaces

9.

Accessories

- LED lighting
- Shelving
- Drawers
- Tool rails
- Shadow boards
- Monitor arms
- Computer mounts
- Keyboard trays
- Power outlets
- Compressed air points
- Adjustable feet
- Castors
- Bin holders
- Parts bins
- Label holders
- Document holders

10.

Lean Manufacturing

Bespoke workstations play an important role in supporting lean manufacturing by helping businesses reduce waste, improve efficiency and create more organised production environments.

Unlike standard workbenches, a bespoke workstation can be designed around the specific process, operator and product requirements. This helps reduce unnecessary movement, improve material flow and ensure tools, equipment and components are positioned exactly where they are needed.

A well-designed workstation can support key lean principles by:

- Reducing waste – Minimising unnecessary movement, searching and handling time.
- Improving workflow – Creating a smoother process from assembly through to completion.
- Supporting 5S organisation – Providing dedicated locations for tools, materials and equipment.
- Improving ergonomics – Reducing operator fatigue through better positioning, accessibility and comfort.
- Creating standardised processes – Helping teams work consistently and efficiently.

By combining practical workstation design with lean manufacturing principles, businesses can create safer, more productive workplaces that support continuous improvement.

11.

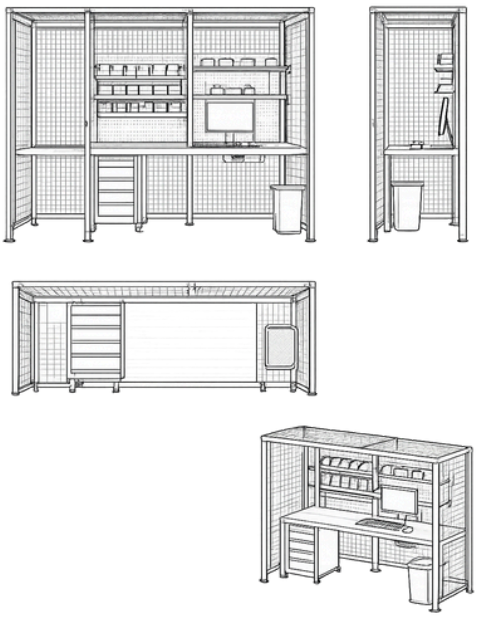
Industry Applications

- Warehousing
- Manufacturing
- Food production
- Automotive
- Aerospace
- Electronics
- Pharmaceutical
- Engineering workshops
- Logistics
- Research laboratories

12.

The Design Process

Customer enquiry
↓
Site survey
↓
Measurement
↓
Risk assessment
↓
Concept design
↓
Design drawing
↓
Customer approval
↓
Manufacture
↓
Installation
↓
Aftercare



13.

Installation

Proper installation ensures your workstation is safe, stable and ready for use.

Before installation, check that the area is clear, the floor is suitable, access routes are adequate, and any required power, air or data connections are available.

Installation typically includes positioning and levelling the workstation, fitting accessories, connecting services where required, and adjusting ergonomic features.

Once installed, the workstation should be inspected to confirm it is secure, stable and fully operational.
Regular inspections and maintenance will help maximise safety, performance and service life.

14.

Maintenance

Regular maintenance helps keep your workstation safe, reliable and operating at its best.

Carry out routine inspections to check for loose fixings, damaged components and signs of wear. Clean work surfaces regularly and ensure adjustable features, drawers and accessories operate smoothly.

Where electrical equipment is fitted, it should be inspected and maintained in accordance with the manufacturer's recommendations.

Any damaged or defective parts should be repaired or replaced promptly to maintain safety, performance and maximise the workstation's service life.

15.

Frequently Asked Questions

- **Can workstations be height adjustable?** - Yes. Height adjustability is one of the most popular features of modern bespoke industrial workstations and can provide significant ergonomic and productivity benefits.
- **Can they include power and compressed air?** - Absolutely. One of the advantages of a bespoke industrial workstation is that it can be designed to integrate the utilities needed for the specific task.
- **Can they be mobile?** - Yes. Many bespoke industrial workstations are designed to be mobile, allowing them to be easily repositioned as production layouts or operational requirements change.
- **What weight can they support?** - The load capacity of a workstation depends entirely on its design, materials and intended application. One of the benefits of a bespoke workstation is that it can be engineered to safely support the required load.
- Can they be expanded later? - Yes. Many can be designed so they can be adapted as a customer's processes evolve.
- **Can they be integrated with conveyors or automation?** - Absolutely. In fact, many bespoke industrial workstations are specifically designed to integrate with conveyor systems, automation and production equipment.
- **What finishes are available?** - Bespoke workstations are available in a range of finishes, including powder-coated, galvanised and stainless steel, with options selected to suit the application, environment and durability requirements.
- **Do you offer installation throughout the UK?** - We primarily provide professional installation throughout Yorkshire and the surrounding areas, with UK-wide installation available for larger or specialist projects.

16.

Why Choose Bespoke Industrial?

At Bespoke Industrial, we design and supply bespoke workstations that improve safety, efficiency and productivity.

Every solution is tailored to your specific application, ensuring it meets your operational requirements today while providing the flexibility to adapt in the future.

With a customer-focused approach, quality manufacturing and professional installation throughout Yorkshire and the surrounding areas, we're committed to delivering practical, reliable solutions that are built to last.

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Disclaimer:
This guide is intended for general information only and should not be relied upon as engineering, legal, or health and safety advice. Every workplace is different, and workstation design should always be based on a suitable assessment of the application, environment and relevant legislation. Bespoke Industrial Ltd accepts no liability for any loss or damage arising from reliance on the information contained within this guide.

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