

Faster CNC Delivery for UK manufacturers

8 practical ways to shorten your lead times

In precision manufacturing, time is just as critical as accuracy. Long lead times can disrupt schedules, increase inventory costs, and reduce flexibility.

This guide explains how to shorten CNC machining lead times without cutting corners on quality. Each section gives practical, proven steps you can apply to your projects right away.



In this guide, you'll learn to:

- Secure machining capacity earlier in your project
- Remove hidden delays in drawings, tolerances, and approvals
- Use call-off, scheduled, and Kanban ordering patterns to turn manufacturing time into delivery time.
- Choose machining partners who consistently hit your required dates.

Who is this guide for?

This guide is for procurement, design, and operations teams in UK manufacturing who need predictable CNC lead times on critical components.



1

Order early to secure your slot

When production schedules are tight, time is your most valuable asset. Placing your order early allows your machining supplier to plan ahead, allocate resources, and avoid scheduling conflicts.

How to do it:

- Share your production forecast or project timeline as soon as possible.
- Confirm estimated quantities and delivery windows early, even if they are subject to change.
- Ask your supplier how much notice helps them plan capacity effectively, then aim to meet it.



In summary:

Planning ahead avoids the last-minute rush that causes unnecessary delays.

2

Provide **complete** and accurate information

Incomplete data is one of the biggest causes of lead time delays. Missing drawings or unclear tolerances can stall programming, fixturing, and inspection.

How to do it:

- Send fully detailed and up-to-date drawings and STEP files.
- Clearly specify tolerances, surface finishes, and materials.
- Include any special process requirements such as coating, heat treatment, or inspection criteria.
- Confirm packaging, labelling, and documentation expectations.

Look for suppliers certified to **ISO 9001**, as they are required to review documentation before starting production. This step prevents errors and keeps jobs moving on schedule.

Look for an official certification like this!



In summary:

Complete information at the start saves days later in production.

3

Choose a supplier who delivers on time

Not all CNC suppliers work at the same pace or have the same level of control. A reliable supplier will have the capacity, systems, and planning discipline to meet your deadlines consistently.

How to do it:

- Check the supplier's on-time delivery performance and customer references.
- Confirm their available capacity and how they schedule workload.
- Ask how they handle subcontracted processes such as coatings or heat treatment.
- Review their inspection and quality control capabilities.



In summary:

Choose suppliers based on proven reliability, not just price. The cheapest hourly rate is rarely the fastest route to a finished part on your shelf.

4

Simplify your design to speed up machining

Complex or over-engineered parts take longer to machine. Reducing unnecessary features or ultra-tight tolerances can save significant time without affecting performance.

How to do it:

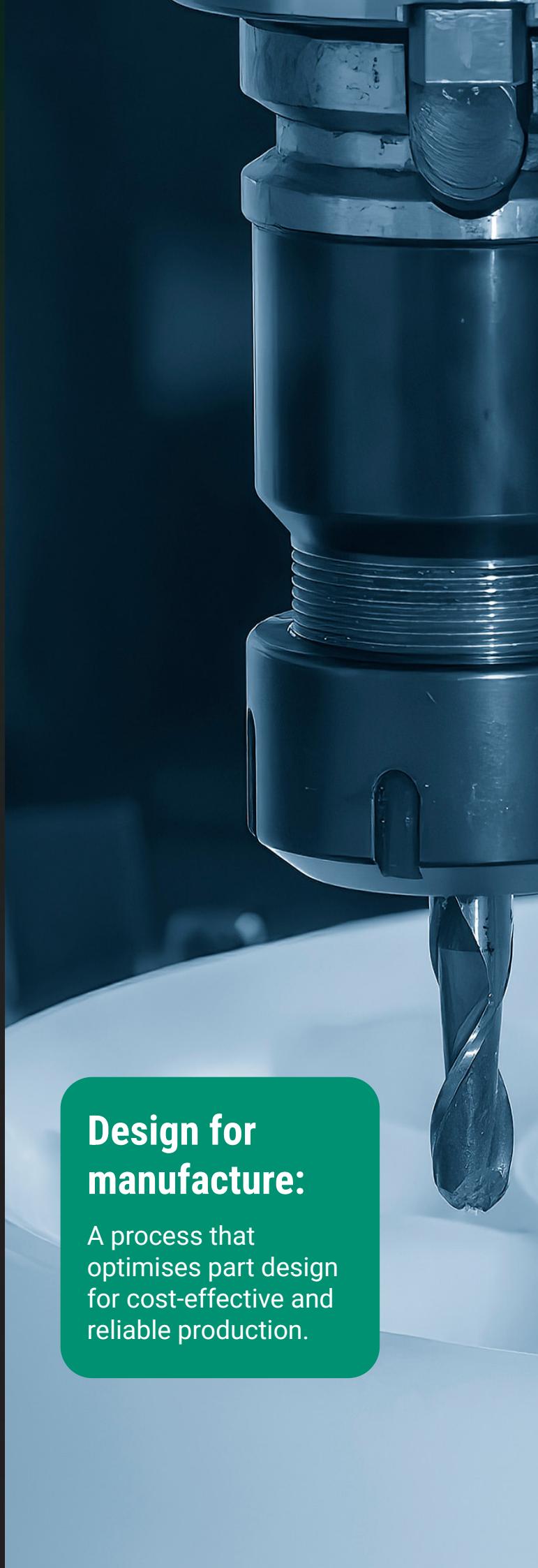
- Minimise deep pockets, sharp internal corners, and tight radii.
- Use standard hole sizes, threads, and materials wherever possible.
- Review tolerance requirements and relax any that are not critical.
- Invest a few hours in **Design for Manufacture** (DFM). A good DFM review remove days from machining and inspection.

In summary:

Simple, well-optimised designs are faster to produce and easier to inspect.

Design for manufacture:

A process that optimises part design for cost-effective and reliable production.



5

Choose the right **buying pattern** for your business

A buying pattern is the way you choose to order and replenish your machined components. Selecting the right pattern gives you more control over stock, delivery timing, and production flow.

Buying patterns can reduce lead times by turning long machining cycles into short, predictable delivery windows.

Here are the **three most common patterns** used in CNC procurement and when each one works best:

Call off orders:

Order a batch upfront then draw stock as needed for fast repeat deliveries.

Scheduled orders:

Fix delivery dates in advance to create a stable, predictable supply plan.

Kanban orders:

Replenish parts automatically when stock hits an agreed trigger level.

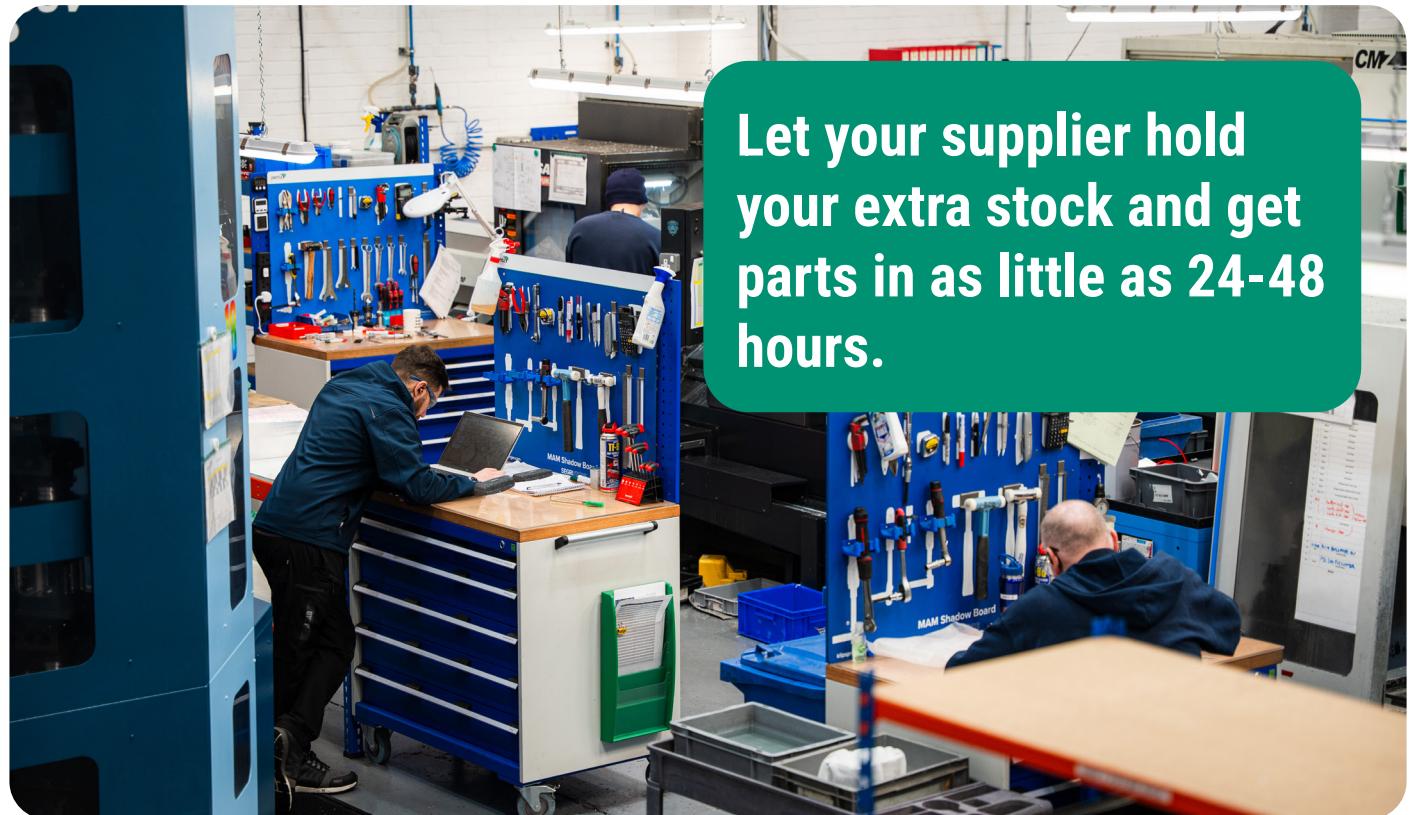
BUYING PATTERN 1:

Use call-off orders for faster repeat deliveries

Call-off orders let you place one bulk order for a batch of components, while drawing them down in smaller shipments as you need them. Your supplier machines and holds stock, so your “lead time” becomes the time it takes to pick, pack, and ship.

How to do it:

- Agree on total quantity and a realistic drawdown period (for example, 12 months).
- Define a minimum call-off quantity to keep stock rotation efficient.
- Confirm how stock levels will be monitored and replenished.



In summary:

Call-off agreements turn manufacturing lead time into delivery time.

BUYING PATTERN 2:

Schedule regular deliveries in advance

Scheduled orders fix delivery dates for the coming months. This approach locks machining time and helps you coordinate with other suppliers.

How to do it:

- Plan your delivery schedule to match your build or assembly plan.
- Share the schedule with your suppliers and confirm flexibility ranges.
- Review the schedule regularly and communicate changes early.



In summary:

Predictable schedules help both sides plan better and reduce disruption.

BUYING PATTERN 3:

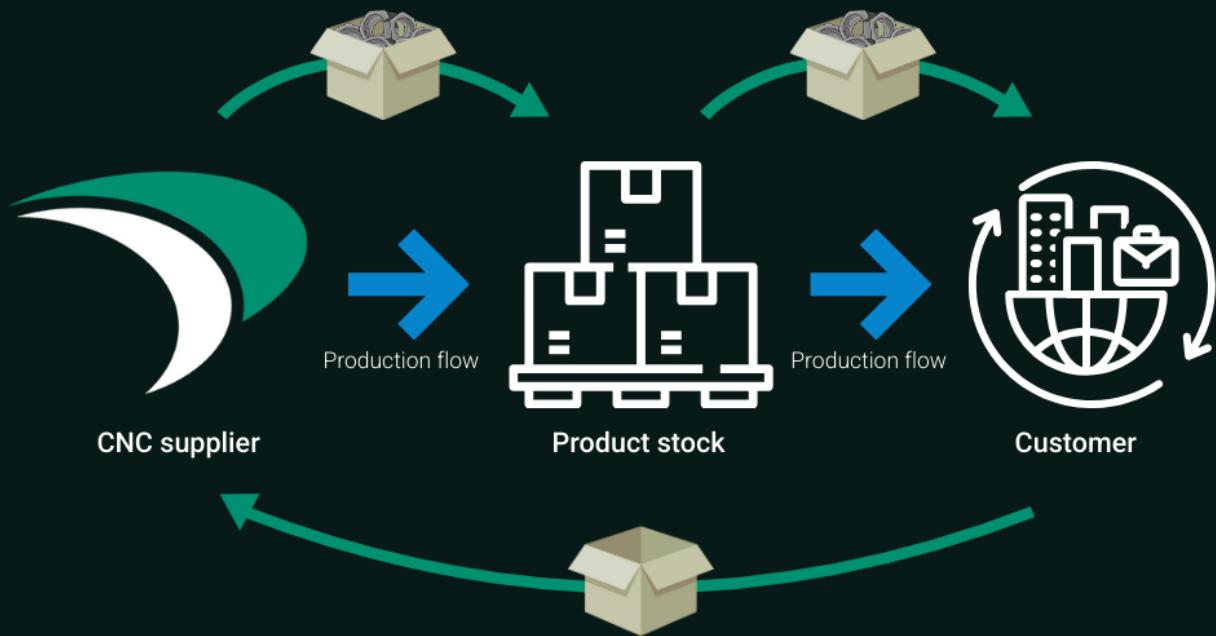
Set up a Kanban system for ongoing supply

Kanban ordering systems are a just-in-time (JIT) approach to inventory management, guaranteeing seamless production by initiating component replenishment precisely when required. Upon reaching a predefined inventory level, the system alerts the supplier, triggering a prompt refill of your components.

How to do it:

- Agree on a reorder point and Kanban quantity based on your usage.
- Make sure stock levels are reviewed regularly and adjusted if demand changes.
- Use clear visual or digital signals to trigger replenishment.

Kanban System Example



In summary:

Replenish stock when levels get low. Kanban keeps parts flowing without the need for urgent orders.

Need help choosing?

Selecting a buying pattern is about choosing the approach that fits how you use parts. Each option can help shorten lead times when it is matched to the right demand profile.

A quick review of your usage, stock levels, and planning habits will show which pattern gives you the most dependable supply.

| Buying pattern | How it works | Best suited to: |
|-------------------------|--|--|
| Call off orders | Buy a batch upfront and draw stock as required. | Stable repeat parts with moderate usage and a need for fast delivery turnaround. |
| Scheduled orders | Agree fixed delivery dates over a set period. | Parts needed at planned intervals where production aligns with a predictable build schedule. |
| Kanban system | Replenish automatically when stock drops to a trigger level. | High usage repeat parts with consistent demand and minimal tolerance for stockouts. |

6

Use a **single supplier** for complete production

Each hand-off between suppliers adds delay and risk.

Choosing a machining partner who manages materials, machining, finishing, and inspection can save valuable time.

How to do it:

- Ask if your supplier can handle the full production process.
- Confirm which operations are subcontracted and how they are managed.
- Ensure traceability and certification are maintained from start to finish.

In summary:

Fewer hand-offs mean faster completion and fewer coordination issues.



Build **strong** supplier relationships

Even better, opt for a supplier who prioritises communication, because good communication keeps projects on track. This reduces uncertainty, prevents unnecessary chasing, and allows for early action when things change.

How to do it:

- Set up a single point of contact for technical and commercial communication.
- Agree how progress updates will be shared and how quickly issues will be reported.
- Let your supplier know about design changes or delivery adjustments as early as possible.



In summary:

Open communication builds trust and prevents small issues from becoming delays.

8

Build **flexibility** into your business plan

Even with strong processes, unplanned events happen. A little flexibility helps you handle them without disrupting your production schedule.

How to do it:

- Keep a small buffer of critical components where possible.
- Pre-approve alternate materials or finishes if your standards allow.
- Establish clear rules for urgent requests and expedited orders.
- Review risk items regularly and plan contingencies together with your supplier.

In summary:

Flexibility is not about last-minute changes. It is about being ready when things do change.

In Conclusion...

What to look for in a reliable CNC supplier:

- Robust planning and scheduling, with a strong record of **on-time delivery**.
- Accredited quality systems, such as **ISO 9001**, and clear inspection routines.
- Clear, **proactive communication** and realistic commitments.
- **Controlled** handling of your technical data and intellectual property.
- **Full traceability** from material to final inspection.

These are non-negotiables when it comes to a machining partner because they are the foundations of predictable, repeatable performance.

Next Steps:

Reducing lead times starts with visibility and preparation. Choose one or two tips from this guide and apply them to your next project. Measure the difference and build from there.

If you'd like a technical review of your components or purchasing process, our team can help identify the steps that make the biggest impact on delivery performance.

Email sales@pentaprecision.co.uk to arrange a short discussion with one of our engineers.

