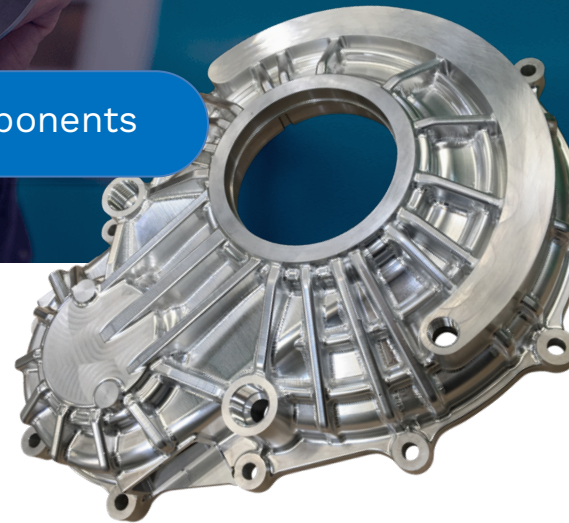


BUYERS GUIDE

To Precision Engineered Components

This guide helps you design, specify and purchase precision engineered components in the most efficient way possible. Following the points below ensures that lead times are kept to a minimum, you get value for money and your quality requirements are met.



About NTG

- ✓ Highly experienced, multi-industry experts committed to outstanding quality
- ✓ Bespoke, precision-engineered solutions with rapid, on-time delivery
- ✓ The flexibility and skill to match your exact requirements
- ✓ NTG are 1 of only 10 businesses in the UK to be awarded World Class status by the Gauge and Toolmakers Association (GTMA).



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Aspect	What we advise	Why
Quantity As a precision manufacturer, NTG engineers components from small-batch and initial prototypes right through to full production volumes.	<p>Beforehand, check your total requirements across all projects/builds.</p> <p>Where possible, consider your annual requirements and provide a blanket order with multiple delivery dates if required.</p>	<p>Ordering in larger batches will reduce set-up times and therefore reduce costs over time.</p>
Over & Under Runs	<p>We often find that customers need more components than they originally planned for. So ordering exact quantities can increase costs as any additional components will be on a separate order.</p>	<p>Ordering additional quantities at the start saves you time should you require these later.</p> <p>Flexibility within our manufacturing facility allows us to potentially store overrun product for you until you require it.</p>
Materials	<p>When planning your project remember that NTG has the flexibility to work with a wide variety of materials from stainless steel right through to exotic alloys.</p> <p>Please consider the availability of the material that you are looking to use.</p>	<p>We deal with non-standard material specifications on a day-to-day basis so whatever your requirements are please let us know.</p>
Tolerances & Concentricity	<p>Only use tight tolerances in your design in areas where it's absolutely necessary.</p>	<p>This is the most efficient approach which can help to reduce lead time and improve value.</p>
Threads & Gauges	<p>NTG machine a large range of threads including BST, metric, imperial, non-standard, unique threads and different thread gauges. Speak to us about your particular thread requirements</p>	<p>With a wide variety of threads to select from, you have greater flexibility in your design..</p>

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Aspect	What we advise	Why
Surface Finishes	From zinc and clear, through to zylon and anodised surface finishes, we offer a wide range of surface finish options. Speak to us about your surface finish requirements.	We understand that the type of surface finish is often critical to your component's performance. We'll work with you to ensure the right finish is selected.
Machine Finishes	NTG have some of the most advanced CNC cylindrical grinding capabilities in the UK. Speak to us to discuss the machine finish that you are looking for.	NTG have a vast amount of experience working with different machine finishes. We can help you to select the most appropriate one.
Additional Finishes	NTG has specialised partners who provide expert services such as heat treatments, specific surface treatments and welding.	Speak to us to discuss the particular finish that you are looking for.
Precision Assembly	Share your assembly guide with our team. If you are at the prototype stage, speak to us to see how we can potentially help to improve the assembly.	NTG has its own dedicated assembly cell offering high precision assembly with in-process inspection down to microns.
Packaging	Specify your particular packaging needs when ordering for maximum efficiency.	NTG are able to cater for your specific packaging requirements. We can also advise alternatives if these prove to be more cost-efficient.
Delivery	We advise ordering at the first available opportunity.	To reduce lead times and ensure prompt delivery. NTG will endeavour to work to your specific lead time requirements and offer dedicated express delivery.

Services offered by NTG:

5-Axis Precision Machining

Using the latest 5-axis CNC machining equipment and techniques, our skilled team are able to engineer precision components for high-stress environments and formidable technical challenges.

CNC Milling

Our engineers are fully conversant with many different machine control systems and languages. Allowing unrivalled flexibility across our 3 & 4 axis milling machines, where we apply advanced 3D milling strategies to manufacture high-quality precision components.

CNC Turning

Our well-invested CNC precision turning section has the capability to complete traditional 2 axis CNC turning up to our twin turret, twin spindle machining with live tooling for complex parts.

EDM Wire & Spark Erosion

EDM is ideal for projects where machining rigid and hard materials with close tolerances is required. With over 30 years of experience processing parts using EDM, we will help choose the right process to complete your complex shapes and structures that would be difficult to achieve through conventional cutting tools.

Surface & Cylindrical Grinding

With our heritage and skills honed in toolmaking, our precision grinding team have a wealth of experience and ensures our customers' tightly tolerance parts are finished to their exacting requirements.

Conventional Milling & Turning

Conventional milling and turning are typically used to produce specific components that do not require CNC machining, or when CNC is not the most efficient method. With our high degree of technical skill and many years of experience, our team are ready to support your needs.

CMM Inspection

Our dedicated inspection team operate from a purpose-built, temperature-controlled inspection department. Working with our skilled engineers we act as the customer's advocate to ensure that parts are delivered right first time.

Processing and Finishing

Complementing our precision machining, we have a full range of post-processing and finishing services including:

- Precision assembly
- Surface treatments
- Heat treatment
- Welding
- Materials testing

If you have any questions on our buyers guide, want to discuss your project or get a quote for it, please contact us: NTG Precision Engineers, 1 Queens Court, Earlsway, Team Valley Trading Estate, Gateshead, Tyne & Wear NE11 0BP. Tel: +44 (0)191 482 2455 Email: sales@ntg-ltd.co.uk | Website: www.ntg-ltd.co.uk