CNC Turning Services for Precision Components

Balbird machines precision rotational components on **2 CNC turning centres**, for diameters from **5 to 500 mm**, lengths up to **700 mm** and batches from **1 to 1,000 units**. Typical parts include shafts, bushings, pins, sleeves, spacers and fittings. Send a drawing to submit an RFQ.

5–500 mm	Up to 700 mm	1–1,000 units
Diameter range	Length	Batch range

Built for design engineers and purchase managers who need prototypes, small batches or repeat orders of turned parts, with material and finishing coordinated.

Buyer problems we help solve

- Prototype and small-batch turned parts that larger suppliers deprioritise.
- Repeat supply of shafts, bushings and fittings to a stable drawing.
- Combining turning with heat treatment, finishing or inspection.
- Capacity shortfall or urgent turned-part requirements.
- Sourcing material and machining together.

Technical capability

Parameter	Capability
CNC turning centres	2.
Diameter range	5–500 mm.
Length	Up to 700 mm.
Batch range	1–1,000 units.
Machine details	Make, spindle bore, chuck size, bar-feeder and live-tooling availability are confirmed per machine at RFQ.
Materials	Mild steel, stainless steel, aluminium and brass are typical; other grades are confirmed per RFQ.
Tolerances and finish	Achievable tolerance and surface finish depend on material, geometry and setup; critical features are confirmed against the drawing.
Threads and features	Thread types and special features are confirmed per drawing.
Production modes	Prototype, small-batch and repeat production. Setup and tooling assumptions are stated in the quotation.

Ranges are as shown on the Balbird website. Exact limits can differ by machine and are confirmed per RFQ.

Components and applications

Typical turned parts include:

- Shafts and pins
- Bushings, sleeves and spacers
- Fittings and couplings
- Other rotational components made to drawing

Materials and design inputs

- **Required inputs:** 2D drawing, 3D model, material and grade, heat treatment, finish, tolerance-critical features, quantity and annual demand.
- **Revision control:** we machine to the revision stated on the RFQ and re-confirm any change in writing.
- **Material procurement:** options are discussed at quotation.

- **Design-for-manufacturing:** we flag features that can affect tolerance, tool access or cost.

Quality and documentation

- In-process and final dimensional checks against the drawing; the inspection scope is agreed at quotation.
- Inspection reports and material test certificates can be discussed at RFQ stage.
- Sample or first-piece approval for new parts where required.
- Share any certification or customer-specific requirements with your RFQ.

How an order is executed

1. Enquiry	You send a drawing or requirement through the capability enquiry page or by email.
2. Feasibility review	We check drawing, material, tolerances and quantity, and clarify open points with you.
3. Quotation	You receive a quotation with scope, assumptions and lead-time basis.
4. Facility confirmation	We confirm the manufacturing route and whether work runs in-house or through the partner network.
5. Sample / approval	Where required, a sample or first piece is approved before the batch is released.
6. Production & inspection	Work is made and checked against the agreed drawing and inspection scope.
7. Dispatch & support	Parts are packed and dispatched; any issue is raised and resolved with our team.

Commercial and logistics

- Lead time depends on quantity, material availability, heat treatment or finishing, and workload.
- Setup and tooling charges are stated in the quotation.
- Packaging and delivery coordination are agreed with the quotation.

Frequently asked questions

What size parts can you turn?
Diameters from 5 to 500 mm and lengths up to 700 mm. Exact limits are confirmed per machine.

What quantities do you handle?
Batches from 1 to 1,000 units, including prototypes and repeat orders.

What materials do you machine?
Mild steel, stainless steel, aluminium and brass are typical. Other grades are reviewed per RFQ.

What tolerances can you achieve?
It depends on the part, material and setup. Send the drawing and we confirm the critical features before quoting.

Can you arrange heat treatment or finishing?
Yes, these can be coordinated and are stated in the quotation.

What do you need for a quote?
A drawing with revision, material, tolerances, quantity and annual demand.

To receive an accurate quotation, please share:

- Drawing (2D) and/or 3D model, with revision number
- Material specification and grade; certificate needs, if any
- Critical dimensions, tolerances, surface finish, inspection needs
- Heat treatment, thread specifications and tolerance-critical features
- Quantity, batch size, annual demand and repeat frequency
- Target delivery date and delivery location
- Finishing, coating, assembly, packaging or export requirements
- Quality standards or customer-specific requirements
- Contact person and preferred communication method

Have a drawing or production requirement?

Send your drawing, material specification, quantity and delivery target to Balbird for a feasibility review. Our team will clarify the requirement and confirm the appropriate manufacturing route, capability and quotation process.

Enquiry page: [add website]/capabilities/cnc-turning/enquiry
Email: [add enquiry email]
Website: [add website]

Limits shown are indicative and depend on material, geometry, tooling, machine and supplier availability. Network or subject-to-feasibility services are confirmed per RFQ before quotation.