

PRECISION CNC MACHINING / OEM METAL PARTS

CNC MACHINED COMPONENTS

Turning, milling, drilling and multi-process machining for custom metal parts made to drawing.

INTEGRATED MANUFACTURING

- Casting / Forging
- CNC Machining
- Heat Treatment
- Surface Treatment
- Inspection

TIANHUI MACHINE

Ningbo Tianhui Machinery Co., Ltd.

ISO 9001 | IATF 16949 | OEM / ODM

REPRESENTATIVE COMPONENT



Stainless Steel Actuating Sleeve

Made to drawing. Built around the function of the part.

TIANHUI MACHINE provides precision CNC machining for custom metal components in stainless steel, carbon steel, alloy steel, aluminum, brass and other engineering materials. Parts may be machined from bar, plate, billet, castings or forgings depending on geometry and production needs.

Turned Components

Shafts, sleeves, threaded parts and rotational features produced with controlled concentricity.

Milled Components

Brackets, housings, covers and multi-face parts with controlled datums and hole positions.

Multi-Process Parts

Turning, milling, drilling, boring and secondary operations combined into one route.

Machined Castings & Forgings

Near-net blanks finished at bores, faces, threads and critical assembly interfaces.

For quotation, the drawing matters more than the product name.

Material, quantity, critical datums and tolerances, heat treatment, surface finish, assembly interfaces and inspection requirements define the practical manufacturing route.

01

CNC Turning

For cylindrical parts, bores, shoulders, threads and concentric features.

02

CNC Milling

For faces, pockets, profiles, bolt patterns and multi-axis geometric features.

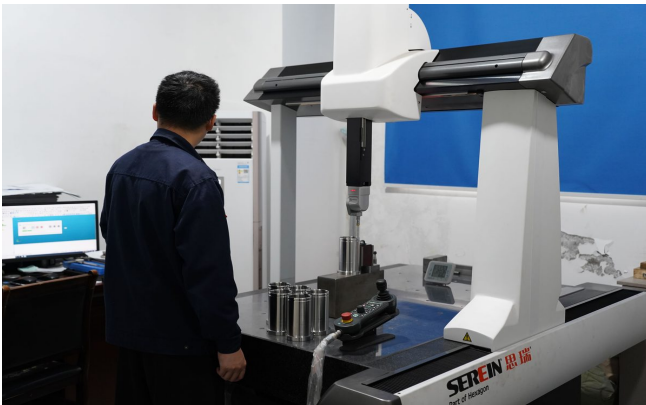
03

Integrated Finishing

Grinding, heat treatment, surface treatment and inspection can be added where the drawing requires them.

Secondary operations can be integrated into the same project route

- Heat treatment
- Surface treatment
- Grinding / finishing
- Welding where specified
- Dimensional inspection
- NDT / pressure test by requirement



CMM Verification

Complex geometry, datum relationships and critical dimensions can be verified by CMM.



In-Process Measurement

Critical dimensions are checked during production, not only after the full batch is completed.



Detailed Final Inspection

Part features, finish and specified acceptance points are reviewed before release.

Inspection capability by project requirement

- Material verification
- Hardness
- Surface roughness
- Salt-spray
- Torque / dynamic balance
- NDT
- Pressure testing
- Spectrometer
- ERP traceability



Stainless Steel Actuating Sleeve

Stainless Steel

Representative example - made to drawing / sample



Electroplated Carbon Steel Flange Bolt

Carbon Steel

Representative example - made to drawing / sample



Anodized Aluminum Flange

Aluminum

Representative example - made to drawing / sample



Precision Machined Aluminum Component

Aluminum / CNC Machining

Representative example - made to drawing / sample



Custom Precision Machined Stainless Steel Component

Stainless Steel / CNC Machining

Representative example - made to drawing / sample



Machined Stainless Steel Snow Melting Component

Stainless Steel / CNC Machining

Representative example - made to drawing / sample

Representative products only - broader custom range available on thcastings.com

What we review before production starts

The objective is to align the manufacturing route with the functional features of the component before tooling, fixtures or batch production are committed.

Datums & Tolerances

Critical datums and functional dimensions are separated from non-critical geometry during process planning.

Material Condition

Raw material, heat-treatment condition and machining behavior are considered before cutting starts.

Surface Finish

Specified roughness and mating surfaces are matched to the finishing route rather than over-processing every face.

Inspection Plan

CMM, gauges and in-process checks are assigned to the features that influence fit, alignment and assembly.

The objective is to protect functional dimensions while avoiding unnecessary machining steps that add cost without improving the part.



SEND THE DRAWING.

WE REVIEW THE MANUFACTURING ROUTE.

RFQ CHECKLIST

- 2D drawing / 3D model or sample
- Material grade and applicable standard
- Order quantity / annual demand
- Critical dimensions, datums and tolerances
- Heat treatment / surface treatment
- Inspection or documentation requirements
- Application notes and mating interfaces
- Drawing revision and target delivery plan

CONTACT TIANHUI MACHINE

Website

www.thcastings.com

Email

seo@cn-tianhui.com

WhatsApp

+86 177 6731 7668



Scan for CNC Machined Components

No. 12 Hongxi Industry Zone, Fenghua, Ningbo, China

ISO 9001 | IATF 16949 | OEM / ODM non-standard metal components