MADE-TO-DRAWING INDUSTRIAL METAL COMPONENTS

INDUSTRIAL EQUIPMENT COMPONENTS

Custom housings, brackets, supports, connectors and machinery parts from casting, forging and CNC machining.

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 Precision Machined High-Voltage Switch Flange Bo

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

TIANHUI MACHINE manufactures non-standard metal components for industrial machinery and equipment. The production route can combine casting, forging, welding, CNC machining, heat treatment, surface treatment and inspection according to the drawing and the functional interfaces of the assembly.

Structural Components

Supports, brackets, bases and load-bearing parts with controlled mounting geometry.

Mechanical Interfaces

Shafts, connectors, flanges and threaded parts used between equipment assemblies.

Housings & Covers

Cast or machined enclosures with functional bores, faces and access features.

Special Equipment Parts

Made-to-drawing components for high-voltage, construction, automation and other industrial systems.

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.

Manufacturing Routes

01

Casting / Forging

Near-net blanks selected around part size, geometry, load and material requirements.

02

CNC Machining

Datums, bores, holes, threads and mounting interfaces machined to drawing.

03

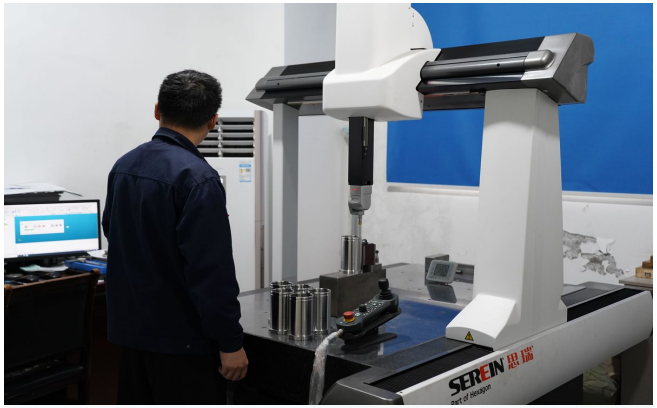
Welding / Finishing

Welding, grinding, coating and other secondary operations can be integrated where required.

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

Quality Control



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

Representative Industrial Equipment Components

SELECTED PRODUCT EXAMPLES



Precision Machined High-Voltage Switch Flange Bolt

CNC Machining

Representative example - made to drawing / sample



Blue-White Zinc-Plated High-Voltage Switch Component

Custom OEM

Representative example - made to drawing / sample



Milled Alloy Steel Component

Alloy Steel / CNC Machining

Representative example - made to drawing / sample



Precision Machined Stainless Steel Mechanical Arm Component

Stainless Steel / CNC Machining

Representative example - made to drawing / sample



Stainless Steel Snow Melting Device Cover

Stainless Steel

Representative example - made to drawing / sample



Construction Machinery Component

Custom OEM

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.

Multi-Process Integration

Casting, forging, welding and machining can be planned as one coordinated route rather than separate purchases.

Mounting & Alignment

Hole positions, datums, interfaces and mounting faces are reviewed around the final equipment assembly.

Load & Service Conditions

Material and process choices are aligned with mechanical load, environment and required service life.

Repeat Production

Fixtures, process controls and inspection points are set up to support stable repeat manufacturing.

For complex equipment parts, the drawing review focuses on interfaces between processes so machining allowance and final datums remain consistent.

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

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