

P053 - Precision Machined Threaded Discs and Rollers

P057 - Precision Machined Couplings, Sleeves and Locking Rings

P062 - Custom Cast Housings, Rings and Connectors

P085 - Precision Machined Toothed Lock Rings

TIANHUI MACHINE

Casting | Forging | CNC Machining | Inspection



P070 - Precision Machined Hub and Cover Components



P077 - Cast Handwheel Components



P084 - Machine Caps, Bushings and Splined Sleeves



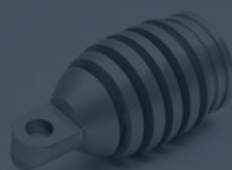
P086 - Precision Machined Spacers and Flanges



P089 - Custom Tubular Handles and Precision Fixtures



P091 - Machine Handle and Lever Assemblies



P092 - Metal Bellows Components



P094 - Precision Machined Gear and Crown Components

PRODUCT CAPABILITY PDF

Industrial Machinery Parts

Custom machinery housings, shafts, rings, rotors, handles and precision mechanical components.

Drawing-Based

OEM Production

Casting + CNC

Coordinated Process

Inspection

Project Specific

thcastings.com

Manufacturing Review

Prepared for OEM buyers evaluating custom metal component manufacturing routes.

01 / COMPONENT SCOPE

What We Manufacture for Industrial Machinery Parts

Manufacturing support for industrial equipment builders and machinery component projects.

01

Machined shafts and tubes

02

Cubic and round housings

03

Retaining rings and lock rings

04

Rotor and valve insert components

05

Handwheel and handle components

06

Couplings and locking rings

07

Machine brackets and supports

08

Custom machined metal fittings

Important note

Most components are produced according to customer drawings, samples or existing parts. Material, tolerance, surface treatment and inspection scope should be confirmed during the manufacturing review instead of assumed from a product image.

02 / MANUFACTURING ROUTES

Choose the route around geometry, material and volume

The same product category can include casting, forging, CNC machining or a combined process. The final route should follow the part drawing and production requirements.

01

CNC machining

CNC machining for precision shafts, rings and housings

02

Investment casting

Investment casting for compact stainless or alloy machinery parts

03

Forging

Forging for high-load mechanical levers and shafts

04

Casting plus machining

Casting plus machining for housings and structural bodies

PROCESS SELECTION

The drawing decides the process.

Before quotation, Tianhui reviews part geometry, alloy, annual volume, tolerance, surface condition, machining allowance and inspection requirements to decide the practical manufacturing route.

03 / PRODUCT EXAMPLES

Representative Components from the Image Library

These examples are grouped from the current product photo library. Exact material and final application should be verified against customer drawings or samples.

**P013****Ring Housing**

Custom ring housing featuring large circular housing/ring with stepped diameters, bolt holes and machined race-like surfaces. The likely...

Confidence: High

**P014****Circular Retaining Rings**

Custom circular retaining rings featuring flat annular rings with repeated holes, grooves and precision circular profiles. The likely...

Confidence: High

**P024****Machined Covers and Discs**

Custom machined covers and discs featuring round machined discs, caps and hubs with concentric steps and bolt features. The likely...

Confidence: High

**P040****Retaining and Locking Rings**

Custom retaining and locking rings featuring large annular rings with segmented outer profiles, repeated slots and precision machined faces....

Confidence: High

**P043****Fixture Blocks and Supports**

Custom fixture blocks and supports featuring long machined blocks and clamp supports with semi-circular seats, bolt holes and flat mounting...

Confidence: High

**P045****Mixing Impellers and Agitator Blades**

Custom mixing impellers and agitator blades featuring open radial blade/propeller forms and threaded hub assemblies for mixing or...

Confidence: High

04 / QUALITY & CUSTOMIZATION

From image review to controlled production

Production is organized around approved drawings, technical requirements and inspection expectations.

01

Dimensional inspection for assembly features

02

Bore, shaft and mating face verification

03

Hardness or material checks when specified

04

Surface roughness checks for precision interfaces

RFQ INFORMATION

What to send for a useful quotation

- 2D drawing, 3D model, sample or clear product photos
- Material grade or preferred alloy
- Estimated quantity and annual demand
- Critical dimensions, tolerances or assembly interfaces
- Surface finish, coating or heat-treatment requirements
- Inspection documents, testing or traceability requirements

05 / PROJECT PROOF

Related manufacturing experience

Related cases: stainless steel forged eccentric camshaft, 42CrMo forged cam and welded closing lock demonstrate precision machining, heat treatment, welding and NDT capability.

Additional example parts

**Handwheel Components****Machine Feet and
Vibration Isolators****Machined Discs and
Rollers****Couplings and Locking
Rings****Toothed Lock Rings****Handwheel Components****NEXT STEP**

Send your drawing for manufacturing review

Email: seo@cn-tianhui.com | Website: www.thcastings.com