STAINLESS STEEL PARTS / FOOD PROCESSING EQUIPMENT

FOOD MACHINERY COMPONENTS

Custom stainless steel components for mixing, grinding, dispensing and food-processing machinery.

INTEGRATED MANUFACTURING

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



REPRESENTATIVE COMPONENT

Stainless Steel Food Equipment Tap

TIANHUI MACHINE

Ningbo Tianhui Machinery Co., Ltd.

ISO 9001 | IATF 16949 | OEM / ODM

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

TIANHUI MACHINE manufactures food machinery components including shafts, housings, taps, grinding heads, mixing parts and other custom stainless-steel components. Material, surface condition, machined interfaces and cleanability are reviewed around repeated wash-down and assembly requirements.

Mixing & Agitation

Shafts, arms and mixing components with controlled interfaces and surface condition.

Grinding Components

Grinding heads, sleeves and housings made for repeated mechanical contact and cleaning.

Dispensing & Taps

Beer taps and fluid-handling components with machined sealing and connection features.

Custom Food Equipment

Non-standard housings, covers and mechanical parts for OEM food-processing machinery.

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

Investment Casting

For stainless-steel housings and complex shapes where near-net geometry can reduce machining.

02

CNC Machining

For shafts, bores, threads, sealing features and assembly-critical interfaces.

03

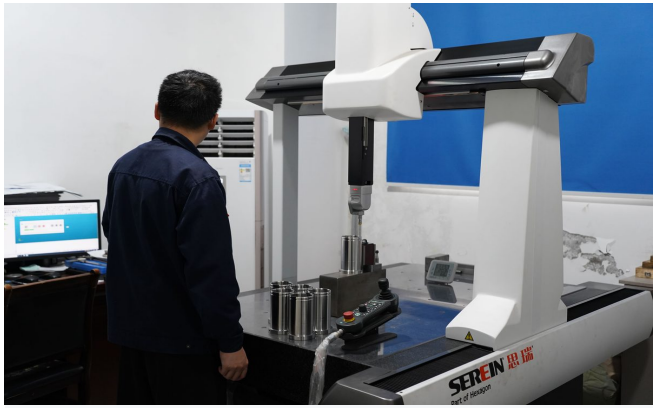
Finishing & Inspection

Grinding, polishing, passivation and dimensional inspection can be integrated according to the drawing.

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 Food Machinery Components

SELECTED PRODUCT EXAMPLES



Stainless Steel Food Equipment Tap

Stainless Steel

Representative example - made to drawing / sample



Investment-Cast Meat Grinder Housing

Investment Casting

Representative example - made to drawing / sample



Investment-Cast Stainless Steel Beer Tap

Stainless Steel / Investment Casting

Representative example - made to drawing / sample



316 Stainless Steel Grinding Head

Stainless Steel

Representative example - made to drawing / sample



Precision Machined Stainless Steel Mixing Shaft

Stainless Steel / CNC Machining

Representative example - made to drawing / sample



Investment-Cast Stainless Steel Meat Grinder Component

Stainless Steel / Investment Casting

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.

Corrosion Resistance

Stainless-steel grades are selected around moisture, cleaning chemicals and service environment.

Clean Surfaces

Surface condition and finishing are reviewed where residue retention or repeated cleaning matters.

Smooth Transitions

Geometry around joints and transitions is reviewed to reduce unnecessary traps and hard-to-clean features.

Assembly Interfaces

Bores, threads, shafts, seals and mating surfaces are machined for stable fit and repeat assembly.

For food machinery parts, dimensional accuracy and surface condition are considered together because both can affect cleaning, assembly and service life.

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