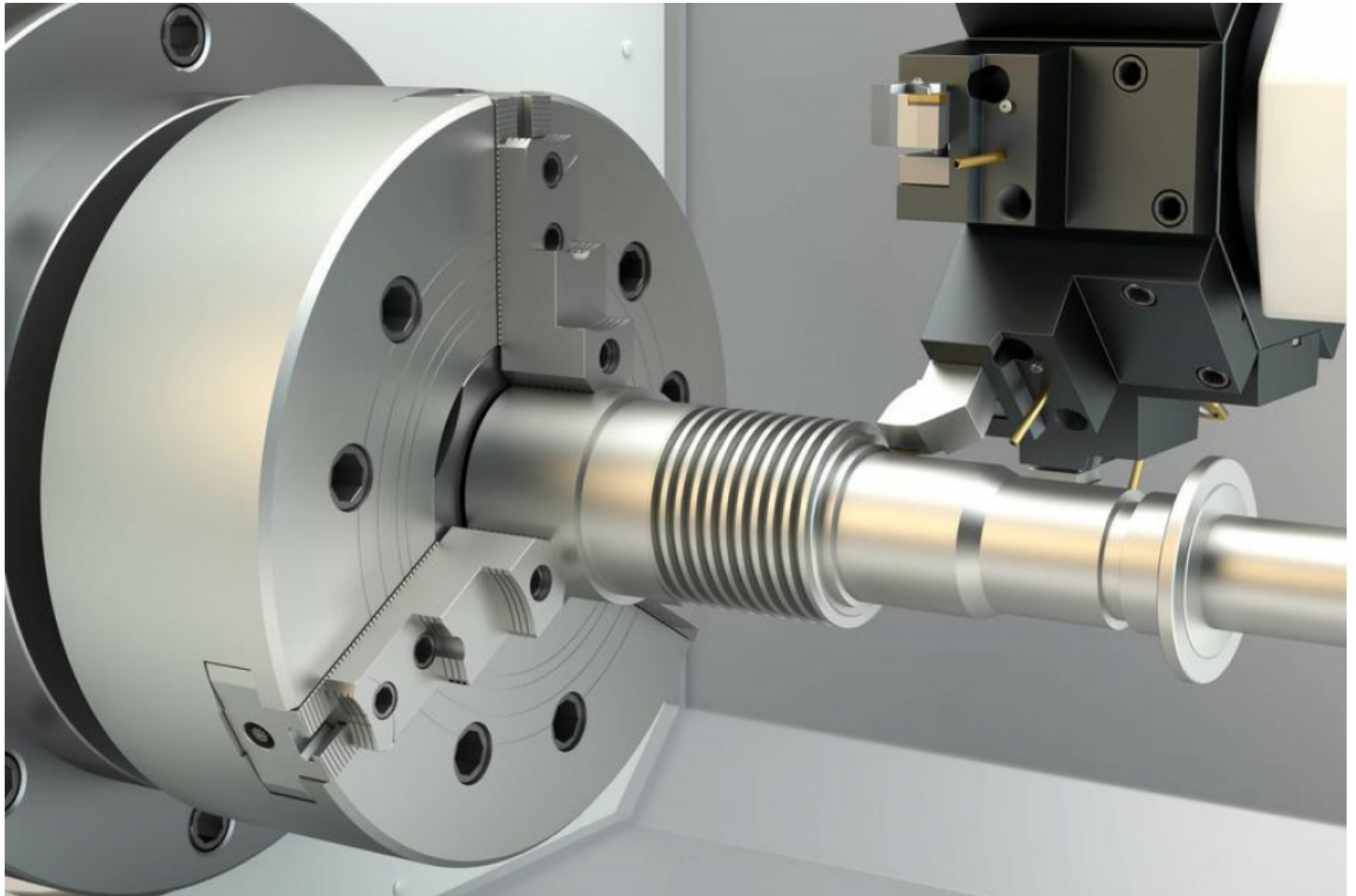


Xiamen CNC Machining Services | Goldcattle Precision CNC Parts



Xiamen, Fujian Oct 23, 2026 ([Issuewire.com](https://www.issuewire.com)) - Precision CNC Machining Without Compromise

ISO 9001:2015 Certified Manufacturer · Xiamen Goldcattle

From single prototypes to 100,000+ production runs — [Xiamen Goldcattle](#) delivers ± 0.005 mm precision, free DFM analysis, and 24-hour quotation. Your engineering challenges, solved.

- ISO 9001:2015 — Certified quality management system
- Zeiss Prismo CMM — ± 0.0005 mm measurement accuracy
- DMG MORI Fleet — DMU 50 · NLX 2500 · LASERTEC
- Free DFM Analysis — Design review on every order

Why Goldcattle 26 Years of CNC Machining Excellence

From single prototypes to 100,000-piece production — we bring tier-one manufacturing infrastructure, rigorous quality systems, and deep engineering expertise to every project.

- **±0.005 mm Precision** — Tight tolerance machining across all processes. Zeiss Prismo CMM with ±0.0005 mm accuracy verifies every critical dimension. Full dimensional reports shipped with every order.
- **DMG MORI + 100+ Machines** — Fleet includes DMG MORI DMU 50 (5-axis), NLX 2500, LASERTEC hybrid. 100+ CNC units covering milling, turning, Swiss-type, EDM, and grinding — all under one roof.
- **Free DFM on Every Order** — Every CAD file receives a free Design-for-Manufacturing review before production. We identify potential issues — wall thickness, undercuts, thread geometry — and propose cost-saving optimizations.
- **ISO 9001 + Material Traceability** — ISO 9001:2015 certified. EN 10204 3.1 material certificates for every batch. FAI per AS9102 standards available. SGS, RoHS, and REACH compliance across our supply chain.
- **3–15 Day Lead Times** — Prototypes in 7–10 working days. Production runs in 10–20 days. Rush orders accommodated. In-house process control eliminates outsourcing delays — we control the schedule.
- **One-Stop: Prototype → Production** — No need to switch suppliers between development stages. We handle prototype tooling, process validation, and production ramp-up with consistent quality from part 1 to part 100,000.

About GoldcattleNational High-Tech Enterprise Since 1998

Xiamen Goldcattle Plastic & Metal Products Co., Ltd. is a National High-Tech Enterprise with 26+ years of expertise in custom CNC machining, injection molding, stamping, 3D printing, and mold making. We provide one-stop OEM/ODM services — from prototype development to mass production — for customers in over 50 countries worldwide.

Our 100+ CNC equipment fleet — including DMG MORI DMU 50, NLX 2500, and LASERTEC hybrid systems — is supported by Zeiss Prismo CMM inspection, ISO 9001:2015 quality management, and in-house DFM analysis on every order. We have successfully delivered 1,000+ projects with 99.8% on-time delivery.

- 26+ Years Experience
- ISO 9001:2015
- 100+ Machines
- National High-Tech
- 50+ Countries
- 8% On-Time
- EN 10204 3.1
- SGS / RoHS / REACH

Case StudiesProjects That Speak for Themselves

Real results from real projects. Every part delivered with a full dimensional report and material certificate.

Aerospace — Turbine Component

Inconel 718 Impeller, 5-Axis Simultaneous

Machined a 248 mm diameter Inconel 718 impeller with 17 curved blades on DMG MORI DMU 50.

Single-setup 5-axis simultaneous eliminated cumulative re-fixturing error. Full FAI per AS9102 delivered with the batch.

- ± 0.005 mm Profile
- Ra 0.8 μm
- 100% FAI Pass
- 8-Day Turn

Medical — Surgical Instrument

SS 316L Orthopedic Drill Guide, Thin-Wall

Produced 5,000 units of a 0.4 mm wall-thickness surgical drill guide. Custom soft-jaw fixturing eliminated chatter. Electropolished to Ra 0.2 μm . Biocompatibility documentation with full material traceability per EN 10204 3.1.

- 4 mm Wall
- Ra 0.2 μm
- 5,000 Pcs
- 10-Day Turn

Industrial — High-Volume Production

Al 6061-T6 Housings, 20,000-Piece Order

Mass-produced 20,000 aluminum electronic enclosures with ± 0.02 mm bore concentricity. Hard-anodized Type III finish. SPC-controlled process with CMM spot checks every 50 parts. Zero rejects in final inspection across the entire batch.

- 20,000 Pcs
- ± 0.02 mm
- 0 Rejects
- 14-Day Turn

What We SolveEngineering Challenges, Delivered

Every project comes with unique manufacturing hurdles. Here is how Goldcattle turns your toughest requirements into inspectable, production-ready parts.

Challenge: Complex 5-Axis Geometries with Undercuts & Compound Angles

Single-setup 5-axis simultaneous machining on DMG MORI DMU 50 — eliminates cumulative re-fixturing errors; CAM-optimized tool paths with collision detection for undercut regions; in-process CMM probing verifies critical features before unclamping.

- Result: ± 0.005 mm
- Setup: Single
- Industries: Aerospace · Medical

Challenge: Thin-Wall Components: Vibration, Deformation & Surface Integrity

High-speed micro-milling (14k+ RPM) with optimized step-over to minimize cutting forces; custom soft-jaw fixturing and vacuum workholding to dampen vibration on walls as thin as 0.3 mm; sequential roughing + stress-relief + finishing cycles to control warpage.

- Wall Thickness: 0.3 mm
- Finish: Ra 0.8
- Industries: Electronics · Medical

Challenge: Hard-to-Machine Alloys: Inconel 718, Ti-6Al-4V & Hardened Tool Steels

Purpose-selected carbide & coated tooling with high-pressure through-coolant (70 bar); trochoidal milling strategies for constant tool engagement and reduced thermal load; in-house heat treatment coordination for pre-hardened and post-machining stress relief.

- Materials: Inconel · Ti · 65 HRC
- Tool Life: 2× Industry Avg
- Industries: Aerospace · Oil & Gas

CapabilitiesCNC Machining Services

Select a process to view detailed capabilities, tolerances, and compatible materials.

CNC Milling — 3 / 4 / 5-Axis

High-speed vertical machining centers for prismatic parts, pockets, contours, and complex 3D surfaces. From rapid prototyping to full production.

CNC Turning — Ø2–320 mm

Precision lathes with live tooling for cylindrical parts, shafts, bushings, and threaded components. Single-setup turning + milling.

Figure 1 — CNC turning with live tooling

[Explore CNC Turning →](#)

5-Axis Simultaneous — DMG MORI DMU 50

Full 5-axis simultaneous machining for impellers, turbine blades, orthopedic implants, and complex aerospace structures — all in one setup.

Figure 2 — 5-axis simultaneous machining

[Explore 5-Axis Machining →](#)

Swiss-Type Turning — Ø0.5–20 mm

Sliding-headstock lathes for micro-precision parts: bone screws, dental abutments, electronic connectors, and miniature shafts with length-to-diameter ratios up to 20:1.

Figure 3 — Swiss-type sliding-headstock lathe

[Explore Swiss-Type Turning →](#)

Wire & Sinker EDM

Electrical discharge machining for hardened steels, carbide, and intricate die/mold cavities that conventional cutting tools cannot reach.

Figure 4 — Wire EDM cutting

[Explore EDM Services →](#)

CNC Grinding & Honing

Surface, cylindrical, and centerless grinding for ultra-precise flatness, roundness, and surface finish requirements.

Figure 5 — Surface grinding

[Explore CNC Grinding →](#)

Materials35+ Engineering Materials

Every batch is EN 10204 3.1 traceable. Select a material to see detailed properties, available finishes, and application recommendations.

Figure 6 — Raw material stock — aluminum coils and stainless tubing

Metal

Aluminum 6061-T6 AMS 4027

Excellent strength-to-weight ratio and natural corrosion resistance. The most widely used aluminum alloy for CNC machining — ideal for aerospace brackets, automotive components, and consumer electronics housings.

Figure 7 — Aluminum 6061-T6 AMS 4027

Aluminum 7075-T6 AMS 4045

Superior strength comparable to mild steel with 1/3 the weight. Preferred for aircraft structural components, defense applications, and high-performance motorsport parts where weight reduction is critical.

Figure 8 — Aluminum 7075-T6 AMS 4045

Stainless Steel 304 AMS 5639

The most versatile stainless steel. Excellent corrosion resistance and formability for food processing equipment, chemical tanks, architectural hardware, and general-purpose machine components.

Figure 9 — Stainless Steel 304 AMS 5639

Stainless Steel 316L AMS 5653

Molybdenum-enhanced for superior chloride and pitting resistance. The gold standard for surgical implants, marine hardware, pharmaceutical processing, and chemical plant equipment.

Figure 10 — Stainless Steel 316L AMS 5653

Titanium Ti-6Al-4V AMS 4928

The workhorse titanium alloy — biocompatible, high strength-to-weight, and exceptional fatigue resistance. Essential for aerospace structures, orthopedic implants, and high-performance racing components.

Figure 12 — Inconel 718 AMS 5662

Brass C360 ASTM B16

Free-machining brass with 100% machinability rating. The benchmark material for precision fittings, valves, pneumatic connectors, plumbing components, and decorative hardware.

Figure 13 — Brass C360 ASTM B16

Carbon Steel 1045 ASTM A108

Medium-carbon steel with good strength, wear resistance, and machinability. Cost-effective choice for shafts, gears, axles, pins, and structural machine components requiring moderate durability.

Figure 14 — Carbon Steel 1045 ASTM A108

Engineering Plastic

PEEK Victrex 450G

High-performance thermoplastic with exceptional chemical resistance and 260°C service temperature. Replaces metal in medical implants, aerospace interiors, semiconductor tooling, and oil & gas seals.

Figure 16 — POM / Delrin DuPont 150

ABS General Purpose

Cost-effective, impact-resistant thermoplastic. Excellent paintability and surface finish for prototypes, enclosures, consumer product housings, and automotive interior trim.

Figure 17 — ABS General Purpose

Nylon PA6/66 (PA6 / PA66)

Tough, abrasion-resistant polyamide with excellent fatigue resistance. Used for bearings, bushings, wear pads, cable ties, and structural components in dry-running applications.

Figure 18 — Nylon PA6/66 (PA6 / PA66)

Ultem / PEI Sabic 1000

High-strength polyetherimide with UL94 V-0 flame rating and 170°C service temperature. Used in aerospace interiors, electrical connectors, and medical device housings.

Figure 20 — PTFE / Teflon (Virgin / Filled)

Technical Ceramic

Alumina 96% Al_2O_3

High-purity aluminum oxide with exceptional hardness, dielectric strength, and thermal stability to 1,650°C. Used for electrical insulators, substrates, semiconductor components, and wear-resistant liners.

Figure 21 — Alumina 96% Al_2O_3

Zirconia ZrO_2 (Y-TZP)

Transformation-toughened ceramic with the highest fracture toughness among ceramics. Ideal for dental implants, cutting tools, fuel cell components, and high-wear bearings.

Figure 22 — Zirconia ZrO_2 (Y-TZP)

Macor Machinable Glass-Ceramic

The only machinable ceramic — can be shaped with standard metalworking tools. Used for vacuum feedthroughs, wafer handling, nuclear instrumentation, and R&D prototyping where fired ceramics are impractical.

Figure 23 — Macor Machinable Glass-Ceramic

CIM Components — Ceramic Injection Molding

High-volume ceramic injection molding for complex near-net-shape parts in Al_2O_3 , ZrO_2 , and Si_3N_4 . Ideal for sensors, microfluidics, medical devices, and electronics packaging.

Surface Finishing20+ In-House Finishing Options

From functional corrosion protection to cosmetic perfection — all finishes applied under one roof for faster turnaround and consistent quality.

Figure 24 — Anodized / plated / powder-coated parts in assorted finishes

Anodizing (Type II / III)

Hard, corrosion-resistant oxide layer. Color options: clear, black, gold, red, blue. Ideal for aluminum aerospace and consumer parts.

Tags: Aluminum · Corrosion · Aesthetic

Figure 25 — Anodizing (Type II / III)

Powder Coating

Durable, even-thickness polymer coating. Excellent UV and impact resistance. RAL color matching available.

Tags: Metals · Outdoor · RAL Colors

Figure 26 — Powder Coating

Electroplating

Nickel, chrome, zinc, gold plating for wear resistance, conductivity, or decorative finish. RoHS compliant.

Tags: Metals · Conductive · Decorative

Figure 27 — Electroplating

Passivation

Chemical treatment for stainless steel — removes free iron, forms protective chromium oxide layer. FDA compliant.

Tags: Stainless Steel · Medical · Food Grade

Figure 28 — Passivation

Bead Blasting

Uniform matte/satin finish. Hides tool marks, provides consistent aesthetic. Glass bead or aluminum oxide media.

Tags: Metals · Plastics · Matte

Figure 29 — Bead Blasting

Polishing

Mechanical polishing to mirror finish ($R_a < 0.05 \mu\text{m}$). Suitable for optical, medical, and decorative

applications.

Tags: Metals · Mirror · Optical

Figure 30 — Polishing

Electropolishing

Electrochemical micro-smoothing for stainless steel. Brightens, passivates, and deburrs in one process.

Tags: Stainless · Deburr · Pharma

Figure 31 — Electropolishing

Brushing — Unidirectional satin grain. Hides fingerprints, provides premium tactile finish for consumer-facing surfaces. (Metals · Satin · Consumer)

Tolerances & Quality Precision You Can Measure

Every part we ship includes a dimensional inspection report. Our quality system is built on ISO 9001:2015, AS9102 FAI standards, and Zeiss CMM verification.

Parameter

Standard

Precision

Linear Tolerance

ISO 2768-m

±0.005 mm

Grinding Tolerance

—

±0.001 mm

EDM Tolerance

—

±0.003 mm

Flatness

—

±0.002 mm

Min Wall Thickness

—

0.3 mm

Min Feature Size

—

0.5 mm

Max Part (Milling)

—

800×600×500 mm

Max Part (Turning)

—

Ø320×500 mm

Surface Finish

—

Ra 0.05–3.2

Lead Time

—

7–20 Business Days

- Zeiss Prismo CMM — ±0.0005 mm accuracy
- FAI per AS9102 — Full dimensional reports
- ISO 9001:2015 — Certified QMS
- EN 10204 3.1 — Material traceability

Industries Trusted Across Critical Sectors

From flight-critical aerospace components to life-saving medical devices — Goldcattle parts perform where failure is not an option.

- **Aerospace** — AS9102 FAI · Full traceability · NADCAP-aligned processes
- **Automotive** — IATF 16949-aligned · PPAP Level 3 available

- **Medical** — ISO 13485-ready · Biocompatible · Cleanroom assembly
- **Electronics** — High-volume · Miniature features · EMI shielding
- **Semiconductor** — Ultra-clean · Wafer handling · Vacuum compatible
- **Industrial Equipment** — Heavy-duty · Hydraulics · High-wear environments

How We Work From CAD to Your Door in 5 Steps

A transparent, milestone-tracked workflow designed to eliminate surprises and deliver parts that meet every specification.

Step 1 — Upload & Review: Send your CAD (STEP/IGES/X_T). We respond within 24 hours with DFM feedback.

Step 2 — DFM & Quote: Free design-for-manufacturing analysis. Transparent, itemized quotation — no hidden costs.

Step 3 — Production: CAM programming, material preparation, machining, in-process inspection. Real-time status updates.

Step 4 — QC & Finishing: CMM dimensional report, surface treatment, final visual inspection. FAI documentation included.

Step 5 — Shipping: Secure packaging. DHL / FedEx / sea freight. Delivered to 50+ countries. Door-to-door tracking.

FAQ

The questions buyers ask most about CNC machining services.

What CNC processes do you offer?

We provide 3/4/5-axis CNC milling, CNC turning, Swiss-type turning, mill-turn multi-tasking, wire & sinker EDM, drilling, boring, reaming, and CNC grinding & honing. All supported by in-house DFM analysis.

What tolerances can you consistently achieve?

We hold ± 0.005 mm on precision milling and turning features. EDM reaches ± 0.003 mm, and grinding achieves ± 0.001 mm with surface finishes down to Ra 0.05. Every shipment includes a CMM dimensional report.

Do you handle prototyping as well as mass production?

Yes — no MOQ. We produce from 1-piece prototypes (7–10 working days) to 100,000+ production runs. The same DFM rigor and quality control apply at every quantity. Prototype tooling and fixturing strategies are designed with production scalability in mind.

What certifications does Goldcattle hold?

ISO 9001:2015 certified. We are also recognized as a National High-Tech Enterprise. Our quality

system aligns with AS9102 (FAI), IATF 16949, and ISO 13485 requirements. Material certificates per EN 10204 3.1 are standard.

What is your typical lead time?

Standard: 7–20 business days depending on complexity and quantity. Prototypes: 7–10 working days. Rush orders can be accommodated — contact us with your deadline.

How do you ensure quality and prevent defects?

Our quality protocol: (1) incoming material certificate verification, (2) first-article inspection (FAI) on every new setup, (3) in-process CMM spot checks, (4) 100% critical-dimension final inspection, (5) surface finish measurement. Full documentation ships with every order.

What file formats do you accept for quotation?

STEP (.stp/.step), IGES (.igs), Parasolid (.x_t), SolidWorks (.sldprt), and 2D PDF drawings. For fastest DFM turnaround, provide both the 3D model and a dimensioned 2D drawing.

Ready to Start Your Project?

Upload your CAD files for a free DFM analysis, material recommendation, and transparent quotation — typically within 24 hours.

NDA Available · 24-Hour Response · ISO9001 / SGS / ROHS / Rmbond Certified · Est. 1998

Related Manufacturing Services

- **3D Printing Services** — SLA, SLS, FDM & MJF. Rapid prototypes in 24 hours. Validate before CNC production.
- **Injection Molding** — Custom mold manufacturing. Class 101–105. From prototype tooling to 1M+ shot production molds.
- **Vacuum Casting** — 10–100 polyurethane parts. Bridge production and market testing at a fraction of injection mold cost.
- **Sheet Metal Fabrication** — Laser cutting, bending, welding. Enclosures, brackets, panels. Prototype to production.

Source: <https://www.xmgoldcattle.com/cnc-machining-services/>



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