



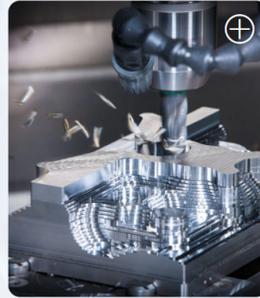
Precision CNC Machining, Delivered Fast

At TUOWEI PROTO, we turn your product vision into reality with cutting-edge CNC machining services. Whether you're developing a prototype or scaling up to full production, our advanced equipment and expert team deliver unmatched precision, speed, and reliability—ensuring your success from concept to completion.

- ✓ Get real-time quotes and upload files instantly
- ✓ Wide range of metals and plastics available
- ✓ Functional prototypes delivered in as little as 24 hours
- ✓ Scalable solutions for short runs to full-scale production

Start Your Instant Quote

Explore Capabilities



Trusted by



parrot®

小乔机器人
XIAO QIAO ROBOT



TUOWEI PROTO's Engineering Legacy

Located in the Bao'an District of Shenzhen, China, TUOWEI PROTO is a leading force in rapid prototyping and CNC machining services. Since our founding in 2002, we have grown into a trusted partner for high-end, low-volume production, operating out of a modern 7,000 sqm facility strategically situated near the 107 National Road and just 10 km from Shenzhen Airport.

Certified to ISO 9001:2015 standards, we are committed to delivering zero-defect quality, continuous improvement, and customer-focused solutions. With expertise in CNC plastic and metal machining, 3D printing, vacuum casting, and sheet metal, our skilled team turns everything from rough sketches to refined concepts into working prototypes—fast, precise, and production-ready.

Why Clients Choose TUOWEI Precision

- Highly skilled engineers with deep technical expertise
- Trusted by global brands across diverse sectors
- Fast lead times with rigorous quality control
- Tailored CNC solutions for complex geometry

Company Details



20,000+

Customer Served



200,000+

Parts Manufactured



50+

Countries Shipped



30+

Manufacturing Partners

22 Years Experience

in metal & plastic prototype and part manufacturing.



End-to-End Precision Manufacturing Solutions

Unlock seamless production with Tuowei. Whether you need CNC machining, injection molding, die casting, 3D printing, or sheet metal fabrication, we deliver customized solutions for everything from one-off prototypes to high-volume manufacturing, all under one roof, with consistent quality and efficiency.



CNC Machining

Explore CNC Tuowei's custom CNC machining services delivering precision, efficiency, and driving fabrication and production excellence. Discover more in our archive.

- ✓ Custom CNC Machining Services
- ✓ Precision and Efficiency
- ✓ Drive Fabrication Excellence
- ✓ Boost Production Quality



Additive Manufacturing

At CNC Tuowei, we deliver innovative, value-added solutions in additive manufacturing designed to boost efficiency, productivity, and drive business growth.

- ✓ Innovative Manufacturing Solutions
- ✓ Boost Operational Efficiency
- ✓ Drive Business Growth
- ✓ Increase Productivity Levels



Sheet Metal Fabrication Services

CNC Tuowei, offers value-added solutions in additive manufacturing to ensure efficient and high-quality production of metal parts.

- ✓ Metal Part Production Solutions
- ✓ Efficient Metal Part Manufacturing
- ✓ High-Quality Metal Parts
- ✓ Additive Manufacturing for Metal



Precision CNC Machining Services for Every Industry

Delivering custom, high-precision components with speed and consistency. Our CNC machining services are engineered to meet your unique specifications whether for prototypes or full-scale production while maintaining tight tolerances and dependable quality. Built with precision and attention to every detail compatible with metals, plastics, and composites fast production timelines without sacrificing accuracy

- ✓ Manufactured with extreme accuracy



- ✓ Compatible with metals, plastics, and composites
- ✓ Advanced multi-axis machining for complex parts
- ✓ Strict quality checks ensure flawless results

[See Details CNC Machining](#)



What Our Clients Say

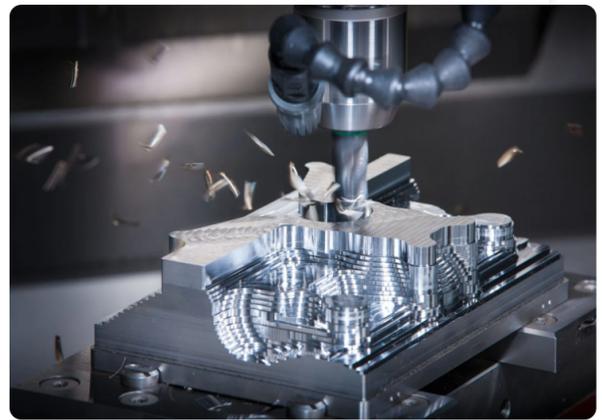
Trusted by global innovators, our precision-driven solutions in CNC machining, molding, and 3D printing deliver unmatched quality, reliability, and service hear how we exceed expectations every time.

Exceptional Precision and Reliability

CNC Tuwei delivers precision, reliability, and exceptional machining quality consistently exceeding expectations through expert engineering solutions.



Lukas Weber
Engineer



Industry Expertise You Can Count On

With a proven track record of producing millions of precision components, Tuwei Proto serves a wide range of industries with confidence. Our team excels in delivering complex, tight-tolerance parts with unwavering consistency and performance. From challenging geometries to demanding standards, we have the knowledge, tools, and precision to meet your industry's exact needs.



Aerospace Industry



Automotive Industry



Medical Devices



Robotics



Consumer Electronics



Defense and Military



Communication



Automation Industry

Ordering Process

At Tuowei, we provide precision CNC machining backed by exceptional reliability, quality, and speed. From initial design to final delivery, we offer expert support, cost-effective solutions, and consistently high-quality results.



Upload Your CAD File

Choose a manufacturing process and upload your 3D design to get started.



Configure Your Project

Select materials, finishes, tolerances, and quantities tailored to your requirements.



Get an Instant Quote

Receive a fast, accurate quote along with design for manufacturability (DFM) feedback.



Confirm & Place Order

Review all project details and place your order with full confidence.



Manufacturing Begins

Your parts are produced using state-of-the-art machines with tight quality control.



Parts Delivered to You

After inspection, your finished parts are carefully packaged and shipped on time.

Why Partner with Tuowei Machinery?

At Tuowei Proto, we combine advanced CNC capabilities with expert project management to deliver reliable, end-to-end manufacturing solutions tailored to your needs.



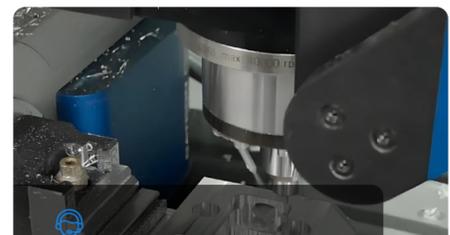
**Engineering Experts**
Our engineers bring deep technical knowledge and hands-on expertise to every project, ensuring optimal design, fit, and functionality.



**Precision Manufacturing**
From tight tolerances to consistent surface finishes, our quality-first approach guarantees exceptional results at every stage.



**Quick & Adaptable**
With agile workflows and smart scheduling, we adapt quickly to your timelines, delivering parts when you need them, without delays.





All-in-One Production

We handle everything from CNC machining and assembly to surface finishing and packaging, minimizing handoffs and maximizing efficiency.



Innovative Technology

Equipped with 5-axis CNC machines and modern inspection tools, we maintain peak precision and keep pace with complex requirements.



Trusted Support

Our responsive team offers clear communication, proactive updates, and personalized service to help you succeed with confidence.

Let's Build What's Next Together

Partner with TUOWEI to Shape Your Vision

From detailed prototypes to high-volume production runs, TUOWEI is your trusted partner for precision CNC machining. Reach out today and take the first step toward streamlined, high-quality manufacturing solutions.

- ✔ Proven Technical Expertise
- ✔ Global Project Capability
- ✔ Next-Gen Machining Solutions
- ✔ Collaborative Engineering Support
- ✔ Dependable, Scalable Production

[Get Instant Quote](#)

🔒 All uploads are secure and confidential

Get In Touch With Us!

Prompt response guaranteed within 12 hours

Please write down your requirements.

Select and upload multiple files at once.

No file chosen

🔒 All uploads are secure and confidential

Tuowei Proto's Solutions

Whether you're creating a small batch of custom parts or scaling up for high-volume production, Tuowei Proto services offer the flexibility you need.



Rapid Prototyping

CNC rapid prototype machining is perfect for creating engineering or production prototypes that closely resemble the final product in both appearance and functionality. At Tuowei, we offer instant quotes and fast delivery, providing you with precise, high-quality CNC machined prototypes for your needs.

✔ Lead Time: 1-5 business days



Low Volume Manufacturing

Low volume CNC machining often acts as a bridge between prototyping and mass production for new and emerging production. With Tuowei, this process becomes easier, more efficient, and cost-effective, allowing you to scale production quickly while maintaining high-quality standards.

✔ Lead Time: 5-15 business days

✔ Capability: 101-10,000 pcs



End-use Production

CNC production machining is the best solution for producing a thousand parts or more efficiently. Leveraging a diverse selection of materials and automation and multi-axis capabilities, Tuowei delivers high-volume production with tight tolerances, superior dimensional accuracy, high reliability and fast turnaround times.

✔ Lead Time: 2-4 weeks

- ✓ Capability: 1-100 pcs
- ✓ Get 20% off the price

- ✓ Meet tight specifications

- ✓ Capability: Above 10,001 pcs
- ✓ Consistent Quality

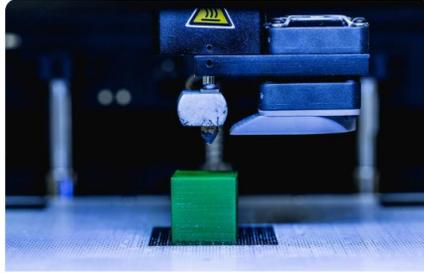
Explore Insights & Innovation

Stay ahead with expert tips, industry trends, and precision manufacturing insights from the team at Tuwei. Read our latest blogs to gain valuable knowledge and discover how we're shaping the future of CNC production.



CNC Bits for Plastic: A Precision Cutting Solution

May 26, 2025 [Read the Blog](#)



Metal 3D Printing: Revolutionizing Part Production with Precision and Speed

August 8, 2025 [Read the Blog](#)



CNC Bits for Plastic: A Precision Cutting Solution

May 26, 2025 [Read the Blog](#)

FAQs

About

How do you ensure quality control? ▼

What services does Tuwei Proto offer? ▼

How fast can I get my parts manufactured? ▼

Do you offer custom manufacturing solutions? ▼

What materials can you work with? ▼

How can I request a quote? ▼



Engineering & Manufacturing
From Prototype to Production

+86-13728885171

About us

- About
- Facilities
- How it Work
- Quality Assurance
- IP Protection

Company

- Jobs
- Team
- Privacy Policy
- Terms of Use
- Blogs

Capabilities

- CNC Machining
- Design Engineering
- Metal Part Production
- Value-Added Solutions
- Plastic Part Production

Resources

- Materials
- Surface Finishes
- Knowledge base
- Download Center
- Watch & Learn

