

ENGINEERING, TECHNOLOGY & PRECISION SOLUTIONS

Delivering engineering excellence,
precision manufacturing, and
AI-driven technology solutions
for businesses across
North America.



**ENGINEERING
& DESIGN**



**PRECISION
MACHINING**



**AI
TECHNOLOGY**



INNOVATION DRIVEN



QUALITY ASSURED



CUSTOM SOLUTIONS



ON-TIME DELIVERY



About SINBO Engineering Inc.

VISION

To be a leading engineering and technology partner recognized for innovation, uncompromising precision, and the delivery of transformative industrial solutions.



Mission

To provide high-quality engineering, scalable manufacturing, and AI-driven technologies that empower our clients to achieve operational excellence and long-term sustainable growth.



SINBO Engineering Inc. is an independent Canadian engineering and technology company committed to delivering innovative solutions across engineering design, precision machining, manufacturing, industrial services, and AI-powered technologies. Based in Calgary, our engineering and industrial services are locally driven, while our precision machining and manufacturing capabilities are strongly backed by our strategic manufacturing partner, Sinbo Precision Mechanical Co., Ltd. This strategic backing allows us to help businesses transform ideas into reality—seamlessly scaling from local Canadian prototype design to high-volume, premium machining and production overseas. Leveraging a manufacturing ecosystem trusted by industry giants like **NVIDIA, BMW, and Agilent**, our mission is to provide reliable, high-quality, and future-focused services that drive efficiency, productivity, and sustainable growth for our clients across diverse industries.



Engineering Solutions Designed for Performance, Precision & Innovation

Project Strategy: Streamlined start-up checklists to align your design team and gather critical analysis data.

Structural Layouts: Optimized system designs complete with clear cost comparisons.

Comprehensive Engineering: Advanced structural analysis and design for gravity, wind, seismic, and snow loads.

3D BIM: Precision Building Information Modeling for flawless execution.

Field Inspections: Thorough on-site evaluations and detailed reporting.

Construction Administration: Expert oversight to ensure your project is built to spec.

SINBO Engineering Inc. provides professional engineering and design services that help businesses transform concepts into practical, efficient, and reliable solutions

Our team comprises professional engineers licensed across multiple Canadian provinces, with expertise in structural, civil, mechanical, and electrical engineering. Working alongside certified architects, we deliver innovative engineering solutions that align with project objectives while maintaining the highest standards of quality, safety, and long-term performance.

Our services span the entire project lifecycle—from initial planning and conceptual development to detailed engineering design, project management, and implementation support. We collaborate closely with our clients to provide customized solutions across diverse sectors, including industrial, commercial, infrastructure, manufacturing, and energy projects.





Why Choose SINBO Engineering Inc.

Our Services

- Engineering expertise
- Quality assurance
- Custom manufacturing
- Fast turnaround
- Global support
- Innovation-driven approach

Manufacturing Capabilities

- 5-Axis CNC Machining Centers High-precision machining for complex geometries
- Advanced Injection Molding Machines Precision molding for mass production
- CMM & Inspection Equipment Precision measurement and quality control
- Metal 3D Printing Systems Additive manufacturing for complex metal parts



Certificates
ISO 9001:2015

Quality Management System

SA
8000

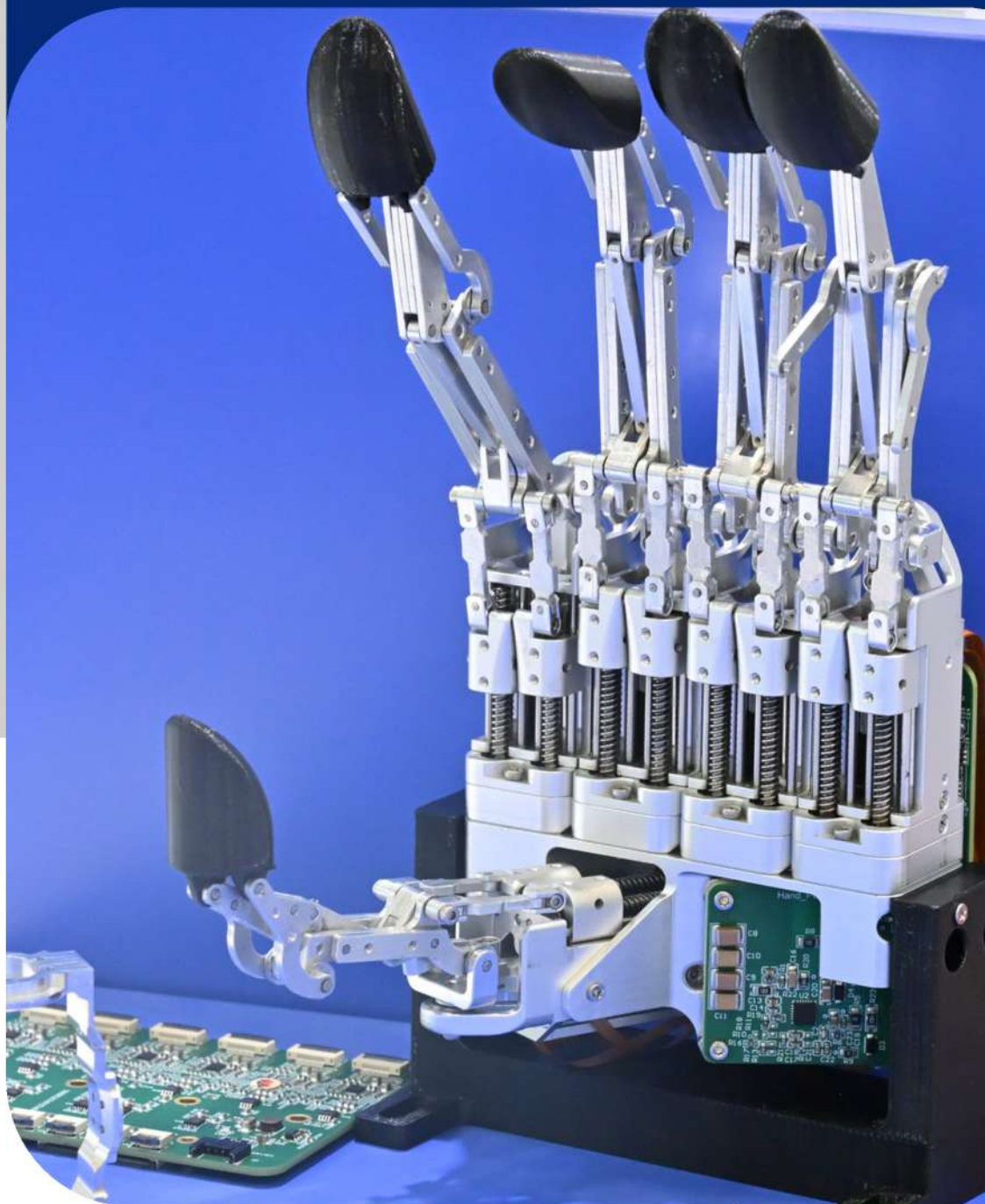
Automotive Quality Management

ISO
14001:2015

Environmental Management



Precision Manufacturing Solutions



We provide advanced precision manufacturing solutions that help businesses transform designs into high-quality, production-ready components



Rapid Prototyping

Accelerate product development with fast, accurate, and cost-effective prototyping solutions. We help businesses validate concepts, test functionality, and refine designs before full-scale production.



Precision Manufacturing

Advanced CNC machining and manufacturing services delivering exceptional accuracy, consistency, and quality for custom components and production parts



Assembly Services

Streamline production with efficient assembly solutions designed to improve product readiness, reduce lead times, and ensure consistent quality.



Precision CNC Machining

At SINBO Engineering Inc., we provide advanced CNC machining services designed to deliver exceptional accuracy, consistency, and performance. Utilizing modern multi-axis machining technology, our team manufactures high-precision components for industries that demand tight tolerances, superior surface finishes, and dependable quality.



Smart Digital Solutions for Modern Businesses

At SINBO Engineering Inc., we help businesses embrace digital transformation through innovative technology solutions, intelligent automation, and creative digital services. Our team combines software development, AI technologies, branding expertise, and web solutions to create powerful digital experiences that improve efficiency, strengthen brand presence, and accelerate business growth.



5-Axis CNC Machining

Advanced 5-axis centers for complex geometries and simultaneous multi-surface machining

Spindle Speed: 24,000 RPM

Rapid Traverse: 60m/min

Tool Changer: ATC



High-Speed CNC Mills

High-speed vertical and horizontal mills for rapid prototyping and production

Feed Rate: 20-40 m/min

Power: 15-30 HP

Control: Fanuc/Mitsubishi



CNC Lathes

Precision turning centers for cylindrical components and rotational parts

Max Diameter: Ø500mm

Max Length: 1000mm

Bar Feeder: Automatic



Oil & Gas Precision Components

Material
17-4 PH Stainless Steel

Process
CNC Machining

Tolerance
±0.005mm

Lead Time
3-5 Days

Surface Finish
Passivation, Coating



Technical Specifications

Material	17-4 PH Stainless Steel (primary), 316/316L, Inconel 718, 2205 Duplex
Process	CNC Milling, CNC Turning, 5-Axis Machining, Heat Treatment
Tolerance	±0.005mm standard, tighter on request
Surface Finish	Passivation, HVOF Coating, PTFE Coating, Electroless Nickel
Pressure Rating	Up to 15,000 PSI (103 MPa)
Temperature Range	-60°C to +200°C (H2S service)
Lead Time	3-5 days for prototypes, 2-4 weeks for production
Compliance	NACE MR0175, ISO 9001:2015, IATF 16949:2016

Manufacturing Capabilities

50+
CNC Machines

±0.005mm
Precision Tolerance

3-5
Days Delivery

NACE
MR0175 Compliant



AI Server Liquid Cooling Connector



Material
316L Stainless Steel

Process
CNC Machining

Tolerance
±0.005mm

Lead Time
3-5 Days

Surface Finish
Passivation



Technical Specifications

Material	316L Stainless Steel (AISI 316L)
Process	CNC Milling, CNC Turning, 5-Axis Machining
Tolerance	±0.005 standard, tighter on request
Surface Finish	Passivation
Thermal Conductivity	16.2 W/(m·K)
Working Pressure	3.0 MPa (tested at 4.5 MPa)
Lead Time	3-5 days
Certifications	ISO 9001:2015, IATF 16949:2016, ISO 14001:2015

Manufacturing Capabilities

5-Axis
CNC Machining

±0.005m
Ultra-High Precision

3 to 5
Days Delivery

DIN 4
Gear Quality



New Energy Vehicle Components



Material
Copper, DT4C Steel

Process
CNC Machining

Tolerance
±0.005mm

Lead Time
3-5 Days

Surface Finish
Silver Plating, Tin Plating



Technical Specifications

Material	C110 Copper (99.9% purity), DT4C Electrical Steel
Process	CNC Milling, CNC Turning, 5-Axis Machining
Tolerance	±0.005mm standard, tighter on request
Surface Finish	Silver Plating (5-10 µm), Tin Plating (3-5 µm)
Electrical Conductivity	≥58 MS/m for copper components
Magnetic Properties	High permeability for DT4C armatures
Lead Time	3-5 days for prototypes, 2-3 weeks for production
Compliance	IATF 16949:2016, ISO 9001:2015, ISO 14001:2015

Manufacturing Capabilities

50+
CNC Machines

±0.005mm
Precision Tolerance

3-5
Days Delivery

IATF
16949 Certified



Aerospace Precision Components



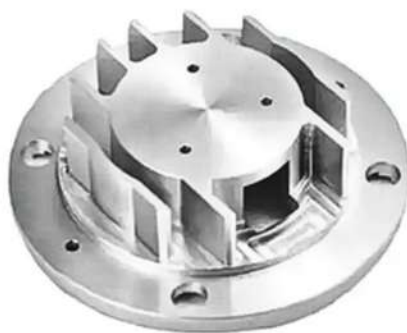
Material
Titanium, 7075
Aluminum

Tolerance
 $\pm 0.005\text{mm}$

Process
5-Axis CNC Machining

Lead Time
3-5 Days

AS9100, ISO 9001



Aerospace precision components are critical manufactured parts designed for aircraft structural applications, jet engine components, and landing gear systems. These components must meet the highest standards of quality, reliability, and performance due to the extreme safety requirements and demanding operating environments in aviation

Material

Ti-6Al-4V, 7075-T73 Aluminum, 17-4 PH/15-5 PH
Stainless

Process

5-Axis CNC Milling, CNC Turning, EDM Wire
Cutting

Tolerance

$\pm 0.005\text{mm}$ standard, $\pm 0.002\text{mm}$ on critical
features

Surface Finish

Anodizing, Passivation, Chemical Film, HVOF
Coating

Strength Requirements

Ultimate tensile strength $\geq 950\text{ MPa}$
for titanium parts

Temperature Range

-65°C to $+550^{\circ}\text{C}$ for titanium alloys

Lead Time

3-5 days for prototypes, 3-6 weeks
for production

Compliance

AS9100D, ISO 9001:2015, IATF
16949:2016

Manufacturing Capabilities

5-Axis
CNC Centers

$\pm 0.005\text{mm}$
Precision Tolerance

3-5
Days Delivery

AS9100
Certified



Humanoid Robot Precision Components



Material
7075, Titanium, Steel

Process
5-Axis CNC Machining

Tolerance
±0.002mm

Lead Time
5-7 Days

Surface Finish
Anodizing, Coating



Material	7075-T651 Aluminum, 6061-T6 Aluminum, 17-4 PH Stainless, Ti-6Al-4V Titanium
Process	5-Axis CNC Milling, CNC Turning, Gear Hobbing, Surface Grinding
Tolerance	±0.002mm (0.00008") on critical features, ±0.005mm standard
Surface Finish	Hard Anodizing (Type III), Electroless Nickel, TiN Coating, Polishing
Gear Quality	DIN 4-5 (AGMA 10-11) on precision gears
Surface Roughness	Ra 0.4µm on bearing surfaces, Ra 0.8µm on mating surfaces
Lead Time	5-7 days for prototypes, 3-4 weeks for production
Compliance	ISO 9001:2015, IATF 16949:2016, RoHS Compliant

Manufacturing Capabilities

5-Axis
CNC Machining

±0.002mm
Ultra-High Precision

5-7
Days Delivery

DIN 4
Gear Quality



Our Partner & Sister Company

Factory Tour

SINBO Engineering Inc. Visits SINBO Precision Factory



SINBO Engineering Inc. in
ACABEX 2026



SINBO Engineering Inc. in
ACABEX 2026 Industrial Visit

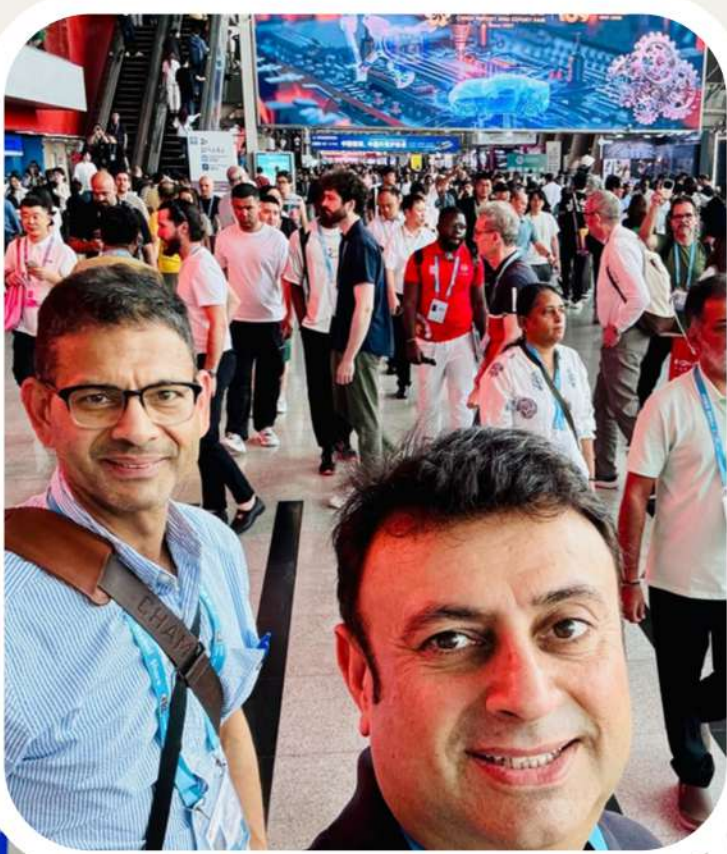


SINBO Engineering Inc. Visits Global Energy Show Canada



Our Partner & Sister Company

SINBO Engineering Inc. Visits Canton Fair



**TRUSTED INDUSTRY
PARTNERS**



**Engineering Excellence.
Intelligent Manufacturing.
Engineering Expertise.
Digital Innovation.
Reliable Delivery.**



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