



CNC MACHINING

PRODUCTS

OSFP Thermal Solutions

Passive Cooling (Heatsink)

- Bonded Fin Heatsink
- Crimped Heatsink
- Extruded Heatsink
- Skived Fin Heatsink
- Stacked/Zipper Fin Heatsink
- BGA Heatsink

Active Cooling (Fan)

- AC Fans
- DC Fans
- DC Blowers
- DC Impellers
- Crossflow Fans
- Frameless DC Fans

Metal Fabrications

- CNC Machining
- Die Casting
- Extrusion
- Plastic Injection Molding
- Sheet Metal

Cold Plates

Heat Pipes

Vapor Chambers

Air Filtration

Friction Stir Welding

Thermal Pad / Grease

CNC Machining Services – Precision Manufacturing by Cofan

CNC machining (Computer Numerical Control machining) is a highly precise manufacturing process where pre-programmed computer software controls the movement of factory tools and machinery. At **Cofan**, our CNC machining services can operate complex equipment such as grinders, lathes, mills, and routers, enabling accurate three-dimensional cutting and shaping with a single set of instructions.

How Cofan's CNC Machining Works

Our process begins with a **CAD (Computer-Aided Design)** model, which is converted to **CAM (Computer-Aided Manufacturing)** software. The design is translated into **G-code**, a programming language that contains detailed instructions for speed, feed rate, tool paths, and coordination.

The selected **workpiece**—which can be metal, plastic, wood, or other materials—is secured in the CNC machine. The machine then executes precise cutting, drilling, milling, or shaping in multiple axes (X, Y, Z) to create complex geometries. After machining, parts may undergo finishing processes such as **deburring, polishing, or coating** to meet exact specifications.

Product Information

- Process: CNC
- Material: Aluminum 6061
- Application: Internal Metal Part
- Finish: Clear Anodizing
- Part No: 49.01.00021



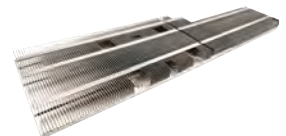
Product Information

- Process: CNC
- Material: Aluminum
- Application: Internal Metal Part
- Finish: Nickel Plate
- Part No: 49.01.00235



Product Information

- Process: CNC
- Material: Aluminum
- Application: Thermal Management
- Finish: Nickel Plating
- Part No: 49.01.00041



Product Information

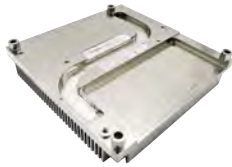
- Process: CNC
- Material: Aluminum 6061
- Application: Internal Metal Part
- Finish: Clear Anodizing
- Part No: 49.01.00522

Product Information

- Process: CNC
- Material: Aluminum 6061
- Application: Optical Equipment
- Finish: Black Anodizing
- Part No: 49.01.00431

Product Information

- Process: CNC
- Material: Aluminum
- Application: Thermal Management
- Finish: Nickel Plating
- Part No: 49.01.00049



Product Information

- Process: CNC
- Material: Aluminum
- Application: Thermal Management
- Finish: Gold Anodizing
- Part No: 49.01.00041



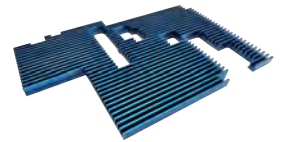
Product Information

- Process: CNC
- Material: Aluminum
- Application: Thermal Management
- Finish: Blue Anodizing
- Part No: 49.01.00061

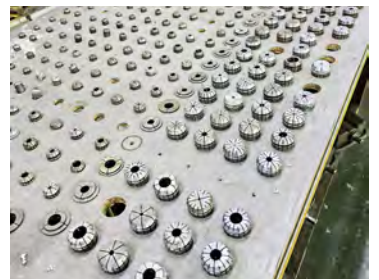
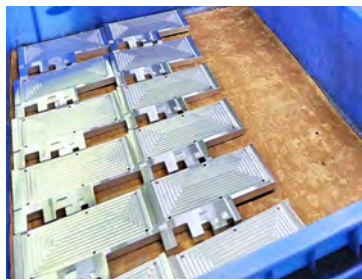


Product Information

- Process: CNC
- Material: Aluminum
- Application: Thermal Management
- Finish: Blue Anodizing
- Part No: 49.01.00091



– COFAN'S CNC PROCESSES –



Advantages of CNC Machining

- **High Precision and Accuracy** – Ideal for producing components with tight tolerances.
- **Efficiency and Repeatability** – Perfect for both large-scale production and custom parts.
- **Material Versatility** – Works with metals, plastics, composites, and more.
- **Complex Geometry Production** – Creates shapes impossible with manual machining.

CNC Machining Applications by Industry

- **Automotive:** Manufacturing engine components, dashboards, transmission parts, and custom prototypes with high durability and precision.
- **Aerospace:** Producing turbine blades, engine parts, and airframe components from metals and composites, meeting strict aerospace tolerances.
- **Medical:** Creating surgical instruments, implants, and prosthetics with precise dimensions and hygienic standards for improved patient outcomes.
- **Electronics:** Producing housings, enclosures, and delicate components for consumer electronics like smartphones, computers, and connectors.
- **Industrial Manufacturing:** Fabricating tools, gears, and machinery components for both high-volume production and specialized low-volume runs.
- **Defense & Military:** Delivering high-precision, reliable parts for weapons, vehicles, and communication systems.

Cofan's CNC machining services combine **cutting-edge technology**, **experienced engineers**, and **strict quality control** to deliver exceptional results. Whether you need rapid prototyping or full-scale production, we provide **cost-effective, accurate, and dependable manufacturing solutions** for industries worldwide.