



Cofan Crimped Heatsink – High-Efficiency Aluminum Fin Cooling Solution

Cofan's **Crimped Heatsink** is an advanced cooling solution engineered to **efficiently dissipate heat** from high-power electronic components. It features a robust base and precision aluminum fins that are **mechanically attached through a crimping process**, ensuring a tight, consistent bond between fins and base for **maximum thermal conductivity**. This manufacturing method delivers **high performance at a lower cost** compared to brazing or soldering, making it one of the most versatile and widely used heatsink designs.

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

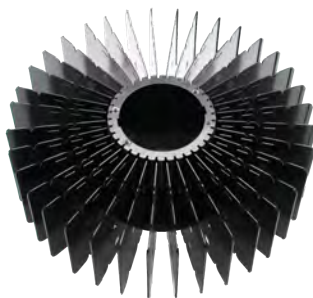
Vapor Chambers

Air Filtration

Friction Stir Welding

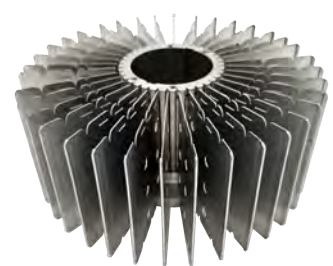
Product Information

- Process: CNC, NCT
- Material: Aluminum 1070, Aluminum 1050
- Application: LED Lighting Fixture
- Finish: Electrophoresis Grey
- Part No: 80-64-90012



Product Information

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Precision Manufacturing Process

Our manufacturing process begins by **creating grooves or slots** in the heatsink base. Aluminum fins are inserted into these slots and then **mechanically pressed or crimped into place**. This technique:

- Guarantees strong mechanical contact
- Reduces thermal resistance
- Offers cost advantages over alternative attachment methods
- Ensures uniform fin spacing for consistent airflow

Thermal Pad / Grease

MCPCBs

Key Advantages

- **Optimized Heat Transfer** – Secure fin-to-base attachment for maximum thermal efficiency
- **Cost-Effective Production** – Lower manufacturing cost without compromising performance
- **Lightweight Construction** – Aluminum fins reduce weight, ideal for portable and weight-sensitive applications
- **Flexible Design** – Available in a wide range of shapes and sizes to fit diverse systems
- **Enhanced Cooling Options** – Compatible with thermal interface materials, cooling fans, and heat pipes

Applications Across Industries

1. Electronics Cooling

- Microprocessors & GPUs – Maintains optimal performance of CPUs and graphics processors in PCs, servers, and workstations
- Power Electronics – Effective cooling for inverters, power supplies, and motor controllers
- Telecommunication Equipment – Heat management for base stations, switches, and network infrastructure

2. LED Lighting

- High-Power LEDs – Prevents overheating, ensuring higher lumen output and longer lifespan for LED assemblies

3. Automotive & Electric Vehicles

- Electronic Control Units (ECUs) – Protects sensitive automotive electronics from thermal stress
- EV Systems – Cools battery management systems, drive inverters, and other high-power modules

4. Industrial Equipment & Renewable Energy

- Heavy Machinery – Manages heat in industrial control units and high-power drives
- Renewable Energy Systems – Used in solar inverters and wind turbine control electronics

5. Medical Devices

- Diagnostic Equipment – Ensures consistent performance in imaging and analysis devices
- Life Support Systems – Improves reliability and uptime of critical care equipment

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Why Choose Cofan Crimped Heatsinks?

- **Proven Reliability** – Trusted in electronics, automotive, industrial, and medical sectors worldwide
 - **Engineering Expertise** – Customized solutions designed to meet exact specifications
 - **Competitive Pricing** – Balances quality, performance, and cost efficiency for high-volume production
 - **Global Support** – Responsive technical assistance and supply chain reliability
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