

Precision-Machined Copper Heat Sinks & Thermal Coins

Advanced Thermal Management for High-Density Electronics

As electronic systems become smaller and more powerful, efficient thermal management is vital to ensure reliability and performance. At EDM Intelligent Solutions, we manufacture custom copper heat sinks and precision-machined thermal coins engineered for superior heat dissipation in space-constrained, high-density environments.

Why Choose Copper for Thermal Management?

Copper offers nearly double the thermal conductivity of aluminum, making it the ideal material for forced-air cooling and high-performance heat spreading applications. When heat transfer and space efficiency matter, copper outperforms standard materials.

- Faster, more uniform heat dissipation
- Improved reliability in high-power electronic assemblies
- Lower operating temperatures across components

Custom Copper Heat Sinks Tailored for Your Application

Our bonded copper heat sinks are custom-engineered to meet the unique needs of each application. From thermal load and spatial constraints to integration requirements, EDMIS delivers solutions optimized for performance and fit.

- 2x–3x more surface area than extruded aluminum profiles
- Higher heat dissipation in compact designs
- Optimized contact surfaces for better thermal transfer

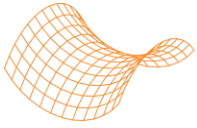
Precision Machining Meets Advanced Metrology

Our advanced CNC machining processes, combined with high-accuracy metrology systems, ensure every part meets exacting specifications. We deliver tight tolerances, smooth thermal interfaces, and optimized geometries for lightweight, high-performance cooling.

Embedded and Press-Fit Copper Thermal Coins

EDMIS offers a variety of copper thermal coins including H-coins, I-coins, and T-coins engineered for efficient heat transfer in limited-space environments. Available in both embedded and press-fit formats, our thermal coins are ideal for:

- RF components and microwave systems
- ASICs, FPGAs, and power modules



EDM Intelligent Solutions

Manufacturing - Metrology

1261 Humbracht Circle Suite A
Bartlett, Illinois 60103
Tel: 630-736-0531
Email: info@edmdept.com
www.edmisolutions.com

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- Aerospace, defense, and medical electronics

Industries We Serve

Our thermal management components are used by leading OEMs and manufacturers in industries including:

- Aerospace & Defense
- Semiconductor & Electronics
- Power Electronics
- Medical Devices
- Telecom & RF Systems