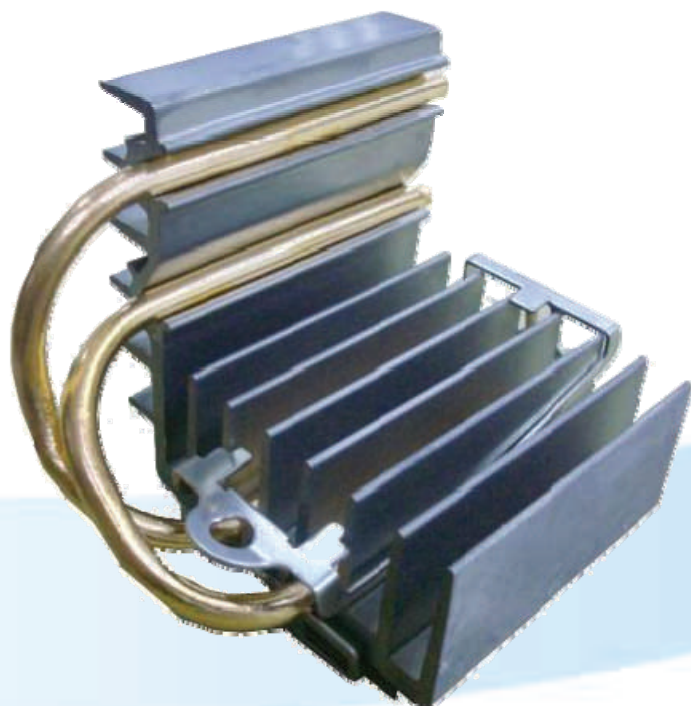


HUNTER MICRO

Multi-Layered Solutions for Emerging Technologies



**Thermal Analysis & Test
Engineering Support
Fans / Fantray Assemblies**

**Heat Sinks
Extrusions
Custom Forged
Die Casting
Stamping
Heat Pipe Assemblies
Cases / Panels**



Guang Dong Facility



Founded in 1987 as a manufacturing facility for Medical Products and a Development company exporting products to the European, American and South Asia markets. In 2002 the primary factory was re-located to Hui Zhou Bo Luo, Long Xi, Gong Ting Village First Industrial District. This relocation led to the establishment of the electronic hardware and plastics manufacturing facility.

In 2005 we expanded our capabilities for the production and development of thermal products for the electronics industry. Products included heat sinks, fans, device coolers, face plates, computer enclosures and more. Our facility is ISO 9001: 2000 approved. The goal for 2008 is to pass ISO 14000.

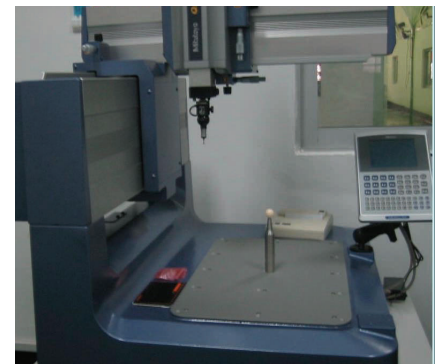
The company prides itself on it's Green Manufacturing techniques, Including our own waste and water treatment plant for the treatment and filtering of water used in manufacturing processes.

The facility covers an area over 130,000 square meters which includes Manufacturing, Warehouse, Water Treatment Plant, Administration & Employee Dormitories.



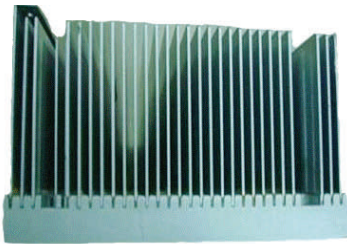
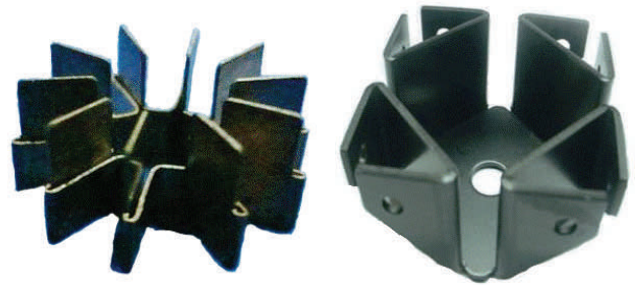
Design for Reliability Through Manufacturing Excellence

Engineering support is available both in the U.S. & China which enable seamless services from concept through mass production. Cutting edge tools such as ProE & Mastercam are used to carry out production designs to meet customer's requirements. Also available is heat-conduction simulation & analysis by using Flowtherm and Multitemptest software. Jan Mao prides itself in providing the most complete and detailed heat analysis & cooling scheme for our clients to reach their product demand.



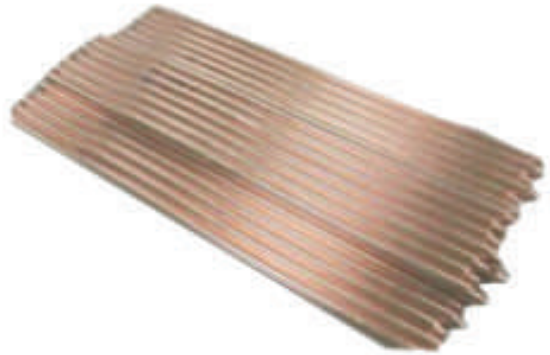
Stamping

Stamped products can be manufactured in many shapes and sizes to fit your specific need. Many custom finishes are also available.



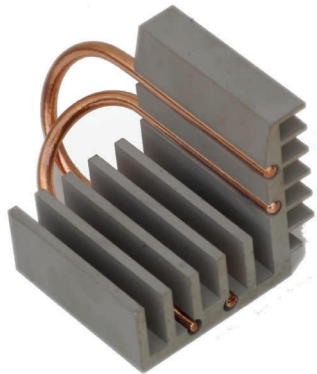
Bonded Fin

Extruded, cast or machine bases are used in conjunction with epoxy to bond the fins together to achieve excellent thermal results.



Heat Pipes

A heat pipe is a passive device that can quickly transfer heat from one point to another. Common types are capillary, powder, groove & mesh. We can manufacture many different types and sizes in accordance to customer's needs.

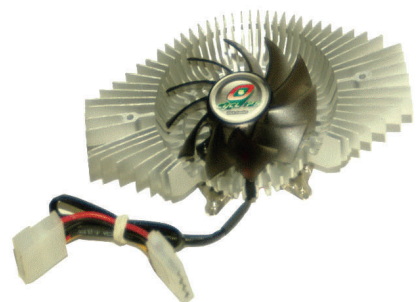


Heat Pipe Assemblies

For many applications with a wide range of markets from cooling to high power electronic assemblies. Jan Mao can design & fabricate custom heat pipe assemblies to customer's needs. Common type assemblies are available as well.

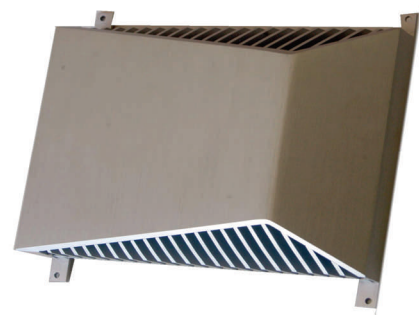
Cooling Fans

Various mounting options and configurations are available to meet customer specific needs.



Extruded Enclosures / Faceplates

We are able to produce panels & assemblies to our customer's exact specifications.



Case Series

Quality design & integrity throughout the production process and assembly makes our case & panel series the top of the line. Solid structure throughout & low cost.

PCB Level Heat Sinks / Products

A wide range of PC board level components & heat-sinks are available off the shelf & and can be customized to meet customer specific needs.

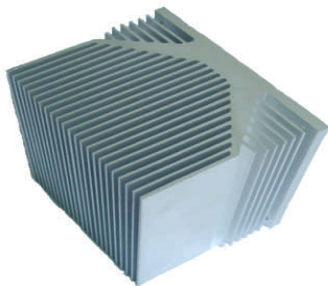


Stamped Heat Spreaders

An extruded heat exchanger that reduces manufacturing costs and material waste, without compromising heat spreading effects. Diamond cut finishing is available upon request.

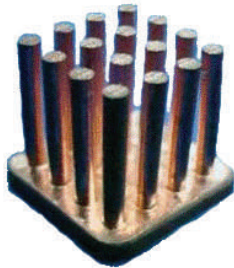
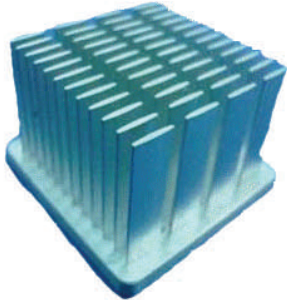
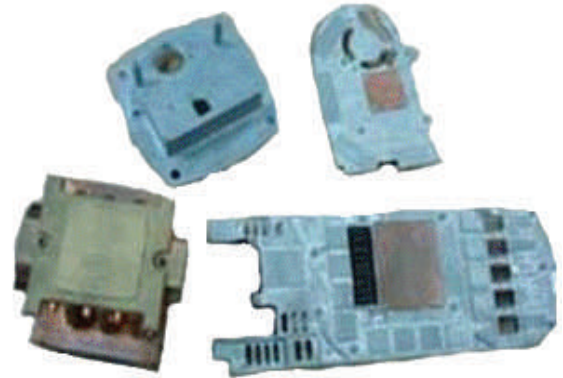
Extruded Heat Sinks

Extruded heat sinks are available in many shapes and finishes to meet our customers needs.



Die Casting

Traditional process techniques can produce large production costs. Die-casting products can reduce costs dramatically and produce satisfactory thermal capabilities.

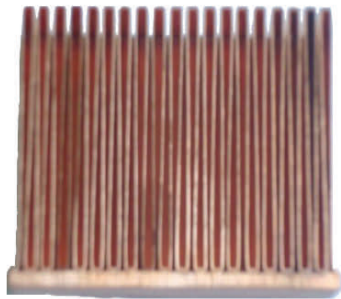
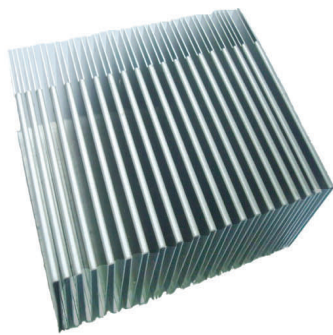
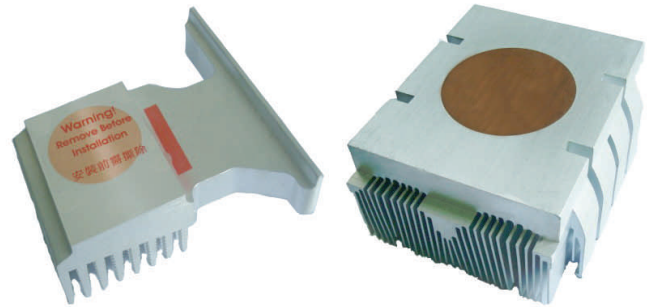


Custom Forging

The forging process can offer unique shapes and good thermal applications for most projects.

Copper & Aluminum

A large number of heat sink products incorporating copper & aluminum can be supplied that surpass the highest quality and design

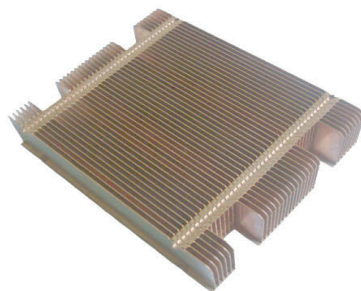
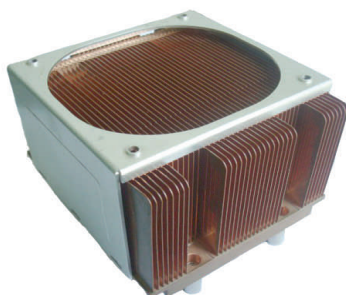
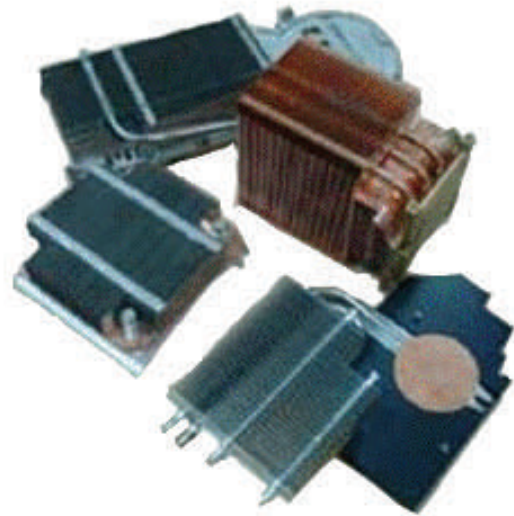


Gilled Fin

The application of bonding the copper & aluminum fin pieces to the foundation solve many thermal issues which normal extrusion techniques cannot.

Zipped Fin

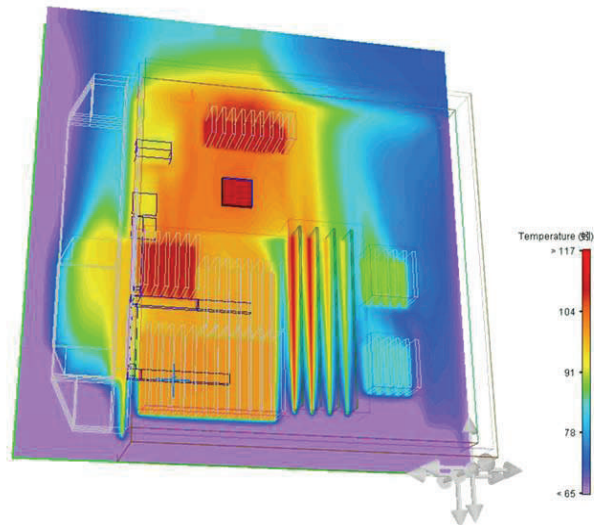
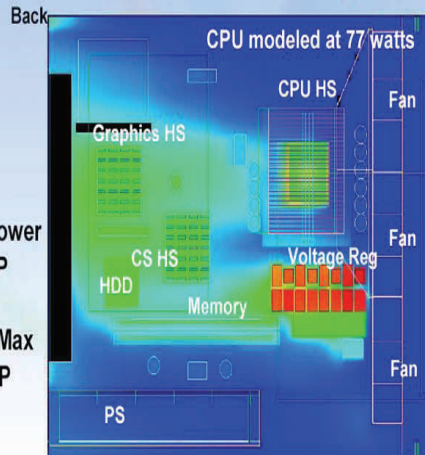
High density aluminum & copper foil fins makes this an ideal solution for cooling problems too difficult to solve by regular extrusion methods.



Thermal Analysis

System Level Thermal Modeling

- Multiple simulations should be evaluated
 - CPU TDP
 - CPU Low Power
 - Chipset TDP
 - AGP TDP
 - Hard Drive Max
 - Memory TDP



Test Equipment

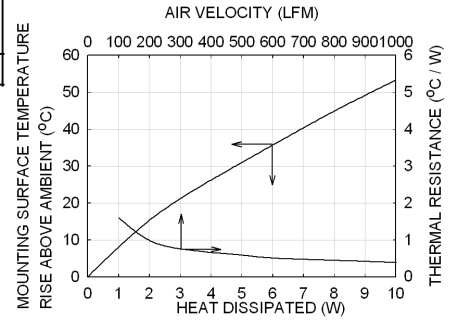


UNIT: INCH

JMC P/N	Width	Length	Height	Fin Thickness Across Width	Base Thickness	# of fins across width	Heatpipe Dimension
53720B0000-0A-GP	3.543	2.756	0.575	0.03	0.12	34	0.236*L7.906

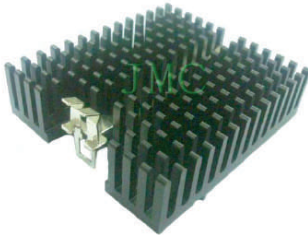


Finish: Plate Ni
Al Extrusion Material: 6063-T5
Clip Material: Steel

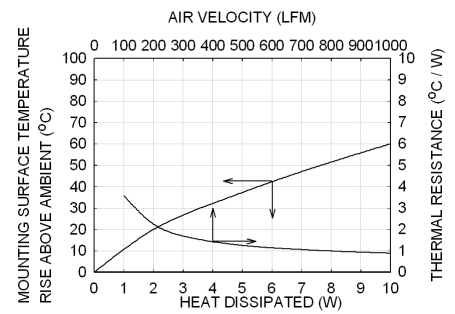


UNIT: INCH

JMC P/N	Width	Length	Height	Fin Thickness Across Width	Fin Thickness Across Length	Base Thickness	# of fins across width	# of fins across length
72360F3000	2.678	2.34	0.77	0.078	0.095	0.165	14	12

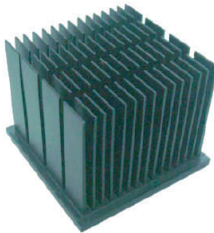


Finish: Black Anodize
Material: Al 6063-T5
Clip Material: SK7 Plate Ni

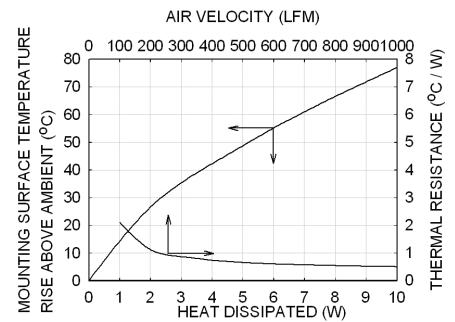


UNIT: INCH

JMC P/N	Width	Length	Height	Fin Thickness Across Width	Fin Thickness Across Length	Base Thickness	# of fins across width	# of fins across length
74500F3000	1.657	1.657	1.283	0.03	0.31	0.102	15	4

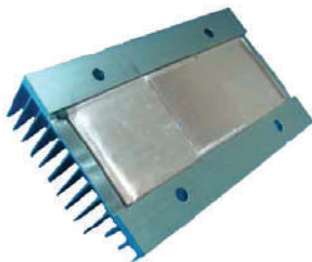


Finish: Black Anodize
Material: Al 6063-T5

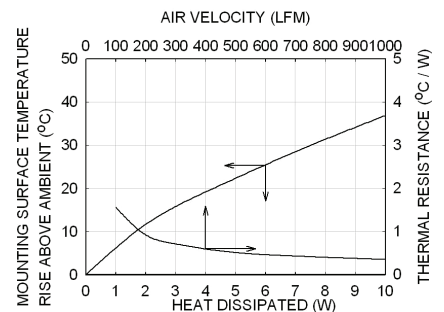


UNIT: INCH

JMC P/N	Length	Width	Height	Fin Thickness Across Width	Base Thickness	# of fins across width	Vapor Chamber Dimension
74690B0000	4.73	2.75	1.05	0.03	0.157	13	L 4.13*W1.5*T0.1



Finish: Plate Ni
Material: Al6063-T5





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