

ALUMINUM HEAT SINK FOR  
**THERMAL SOLUTIONS**

# ABOUT US



## KIMSEN INDUSTRIAL CORPORATION

Established in 2013, KIMSEN INDUSTRIAL CORPORATION is a professional company active in the field of manufacturing Aluminum Extrusion, Stamped, CNC Machined Parts & Components and Assemblies in Vietnam by international standards.

**Factory area:** 35,000 m<sup>2</sup>

**Business category:** Manufacturing Aluminum Extrusion, Stamped, CNC Machined Parts & Components and Assemblies

**Technical standards:** JIS H4100:2015, EN 755-9:2016, ASTM B221-B221M-14

**Management systems:** Quality Management System **ISO 9001:2015**, Environmental Management System **ISO 14001:2015**, Automotive Quality Management System **IATF 16949:2016** & 5S - Kaizen Method



**12** years of experience  
in aluminum extrusion



**10,000** tons of aluminum  
per year



**10** exports to  
countries



**100** CNC machines  
(milling, cutting, drilling, tapping, etc.)



### **EXTRUSION WORKSHOP**

**Aluminum alloy:** 6063, 6005, 6061, 6082, 5052

**Heat treatment:** T4, T5, T6

**Machines:** 1100 UST & 1880 UST



### **CNC WORKSHOP**

**Services:** Milling, cutting, drilling, tapping, bending, etc.

**Machine brands:** Makino, Fanuc, JIH, Doosan, etc.

**Accuracy:**  $\pm 0.01 - 0.02$  mm



### **STAMPING WORKSHOP**

**Services:** Cutting, punching, laser engraving, screen-printing, etc.

**Accuracy:** 0.05 - 0.1 mm



### **ANODIZING WORKSHOP**

**Color range:** Clear & black

**Type:** Natural, sand blasting, hard anodizing, nickel plating, tin plating

**Product Standard:** JIS H8602 & JIS H8601, AAMA611



### **ASSEMBLY LINES**

Sub-assembly for components



### **HEATSINK REFLOW SOLDERING LINES**

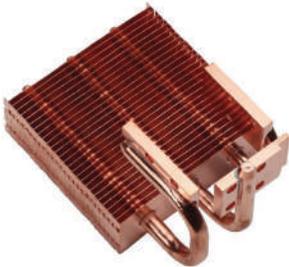
Used to weld the assembled thermal parts

## ZIPPER FIN HEAT SINK

- ✔ Assembled with interlocked metal sheets for precise alignment
- ✔ Lightweight, high thermal conductivity.
- ✔ Suitable for compact designs

### APPLICATIONS

Consumer electronics and LED lighting



## SKIVED FIN HEAT SINK

- ✔ Finned heatsink crafted from a single block of aluminum
- ✔ No solder layer resistance
- ✔ Cost-effective with high thermal performance

### APPLICATIONS

Automotive, telecommunications, and server cooling systems

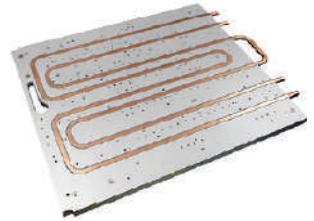


## COLD PLATE

- ✓ Flat, high-efficiency heat spreaders
- ✓ Ideal for liquid cooling systems
- ✓ Robust design for long-term reliability

### APPLICATIONS

Industrial machinery and high-power electronics

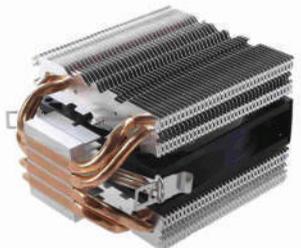


## HEATPIPE HEAT SINK

- ✓ Embedded heat pipes for superior thermal conductivity
- ✓ Compact and lightweight design
- ✓ Enhanced cooling for high-power density applications

### APPLICATIONS

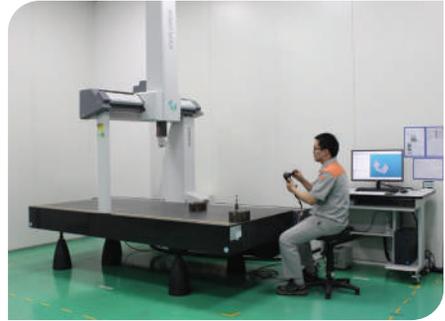
Computing, aerospace, and medical devices



# QUALITY MANAGEMENT

## QUALITY EXCELLENCE AT EVERY STEP

- Certified Management Systems: **ISO 9001:2015**, **ISO 14001:2015**, **IATF 16949:2016**
- The 7 Basic Quality Tools for Process Improvement
- Quality Improvement Methods – Six sigma, Kaizen, Lean Manufacturing, Toyota Way, Pull System, Pokayoke, Kanban, etc.
- Advanced Metrology Capability (CMM, 2D Scanners)



*CMM measurement*



*Vision Measurement*



*Hardness testing*



*Tensile stress testing*

# PACKAGING



KIMSEN provides quality standard packaging services, which can be customized to customer's specific packaging requirements.



## WE PROVIDE OEM SERVICE, CUSTOM COLOR AND STYLE



### DIRECT FROM MANUFACTURER

Get competitive advantage in pricing and support by working directly with OEM Manufacturer



### DESIGN FLEXIBILITY

KIMSEN provides a broad range of manufacturing processes to ensure you the most cost effective thermal solution

Extrusion • Machining • Forging • Stamping • Heat-pipe Assembly



### INDUSTRY KNOWLEDGE & MANUFACTURING CAPABILITIES

As the supplier and manufacturer of aluminum components, KIMSEN is more responsive to our customers through direct product interaction enhanced by deep industry knowledge at all levels



### LOGISTICS BENEFITS

Logistics savings is compounded by the convenience of sourcing direct from the manufacturer, we provide FOB and DDP terms as per your requests

## CUSTOMIZED ALUMINUM SOLUTIONS DEVELOPMENT

### STEP 01

#### INITIAL ENGAGEMENT

- ▶ Preliminary high-level understanding of your business & project requirements



### STEP 02

#### TECHNICAL REVIEW

- ▶ Technical team to discuss in details of product requirements and give MFR (Manufacturing Feasibility Review)



### STEP 03

#### SAMPLE PRODUCTION & APPROVALS

- ▶ Sample production based on MFR agreed by both customer and manufacturer
- ▶ All technical specifications for review & sign-off



### STEP 04

#### MASS PRODUCTION & DELIVERY

- ▶ Kick-start mass production based on validate MFR sign-off
- ▶ Provide confirmed ETA for delivery schedule





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