KIMSEN



COMPANY PROFILE

ALUMINUM PARTS & COMPONENTS
FOR DIVERSE APPLICATIONS

CERTIFIED
ISO 9001
ISO 14001
BUREAU VERITAS

Quality Management
IATF 16949

Established in 2013, **KIMSEN INDUSTRIAL CORPORATION**

is an **ISO 9001, ISO 14001** and **IATF 16949:2016** certified Full-Service Supplier of

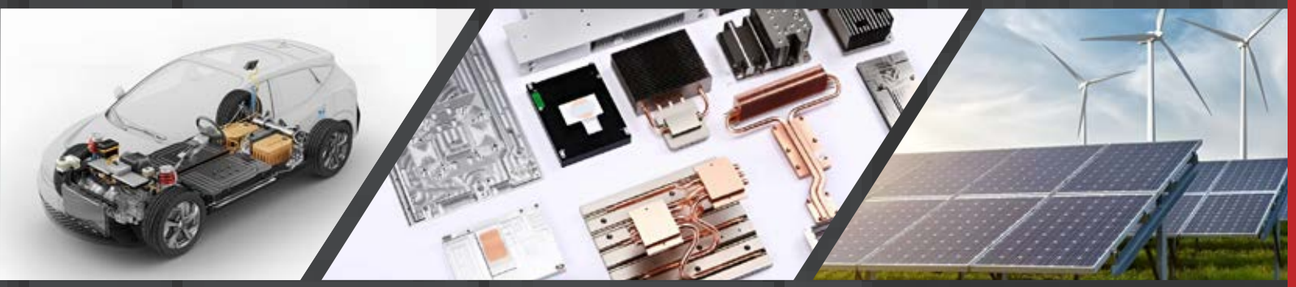
Aluminum Extrusion, Stamped, CNC Machined Parts & Components and Assemblies

for Thermal solutions, Automotive & Solar energy sectors.

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ABOUT US

KIMSEN is a trusted manufacturer specializing in high quality aluminum components and assemblies for thermal solutions, automotive & robotics, and solar energy industries. With end-to-end production capabilities, advanced technology, and internationally certified quality systems, KIMSEN delivers tailored solutions to meet the most demanding global standards.

With the principle of providing customers with international standard products and best quality service, KIMSEN always strives tirelessly to become a professional aluminum manufacturer and a trusting partner in Vietnam and abroad.

12+
YEARS OF EXPERIENCE

35,000 m^2
PLANT AREA

350
EMPLOYEES

10,000
TONS PER YEAR

100+
CNC MACHINES

80+
CLIENTS

VISION

KIMSEN aims to become a leading manufacturer and supplier of parts & components and industrial solutions for thermal solutions, automotive & robotics and solar energy sectors.

KIMSEN - Moving Forward in the Manufacturing World

MISSION

Manufacturing and supplying high quality industrial products, bringing more values to **customers**

Making and increasing real benefits & welfare to **employees** over time

Creating sustainable growth value for **shareholders**

Developing sustainably by minimizing our impact on the environment and contributing to **social values**

CORE VALUES

- INTEGRITY
- INNOVATION
- RESILIENCE
- RELIABILITY

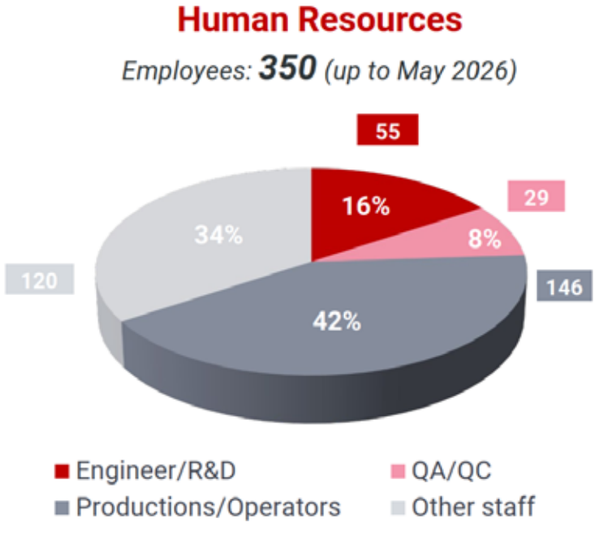
HUMAN RESOURCES

Here at KIMSEN, we consider human resources the most important factor contributing to the development of the Company. Therefore, KIMSEN focuses on building a professional, dynamic and empathetic working environment which offers equal opportunity for each member. We are proud to have a team of well-trained personnel who are passionate and devoted to the development of the Company.



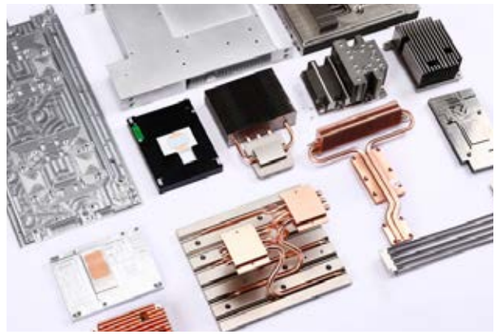






INDUSTRIES WE SERVE

KIMSEN produces diversified range of aluminum products which are being used in a broad range of fields and applications such as Thermal Solutions, Automotive & Solar Energy.
We provide OEM/ODM service, custom design for unique shape and weight requirements at a competitive cost on high volume orders.



THERMAL SOLUTIONS



AUTOMOTIVE



SOLAR ENERGY

THERMAL SOLUTIONS

Aluminum has gained prominence in heat sink applications due to its excellent thermal conductivity, lightweight nature, and ease of manufacturing. The versatility and effectiveness of aluminum extrusions as heat sinks have led to their widespread adoption across numerous electronic devices such as **Consumer Electronic, Computer & Communication**.

EXTRUSION HEAT SINK





SKIVED FIN HEAT SINK





ZIPPER FIN & HEATPIPE HEAT SINK





COLD PLATE & VAPOR CHAMBER

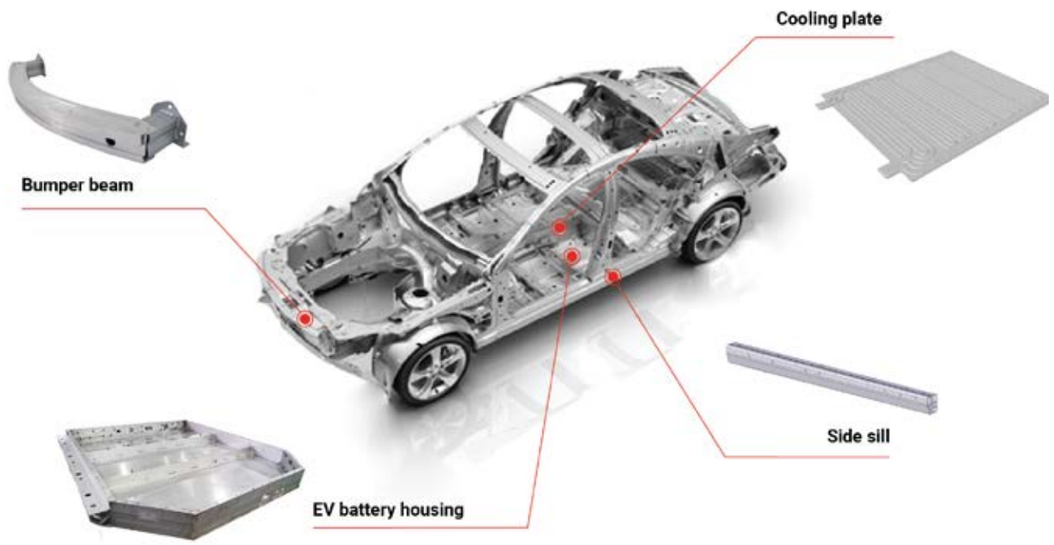




AUTOMOTIVE

Extrusions deliver an efficient geometry offering multiple functions:

- Crash energy absorption
- Torsional stiffness
- Considerable strength with minimal weight
- Leak-free fluid transfer through structural members



SOLAR ENERGY

With its lightweight strength and unmatched corrosion-resistance and durability, aluminum is widely used to build renewable energy platforms like solar components, inverter housing. Aluminum components with anodized coating help the solar panels for strong weather adaptability, easy operation and maintenance.



MANUFACTURING CAPABILITIES









EXTRUSION WORKSHOP

Aluminum alloy: 6063, 6005, 6061, 6082
Heat treatment: T4, T5, T6
Machines: 1100 UST & 1880 UST

EXTRUSION PARTNERSHIP

Aluminum alloy: 6063, 6061, 6N01
Press Tonnage: 5000 UST









CNC MACHINING WORKSHOP

100 machines
Services: Milling, cutting, drilling, tapping, turning, skiving, etc.
Maximum machining length: 4500 mm

HEATSINK REFLOW SOLDERING WORKSHOP

Reflow Solder Ovens &
Performance Test System









WELDING & ASSEMBLY WORKSHOP

Welding type: MIG
Capacity: 8 robots - capable of producing 100k~200k/monthly depending on size
Robot arm: Fanuc
Welding power source: Fronius
Axis: 2-axis system (Fanuc)
Reach distance: 2032 mm
Max. load capacity at wrist: 8 kg









PACKAGING





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





ALUMINUM SPECIFICATIONS

CHEMICAL COMPOSITION (Alloy No.: 6005, 6061, 6063, 6082)

Chemical Composition % (mass fraction)											
Alloy No.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al
									Each	Total	
6005	0.4 - 0.9	0.35 max	0.35 max	0.5 max	0.4 - 0.8	0.3 max	0.25 max	0.1 max	0.05 max	0.15 max	Remainder
6061	0.4 - 0.8	0.7 max	0.15 - 0.4	0.15 max	0.8 - 1.2	0.04 - 0.35	0.25 max	0.15 max	0.05 max	0.15 max	Remainder
6063	0.2 - 0.6	0.35 max	0.1 max	0.1 max	0.45 - 0.9	0.1 max	0.1 max	0.1 max	0.05 max	0.15 max	Remainder
6082	0.7 - 1.3	0.50 max	0.1 max	0.4 - 1.0	0.60 - 1.2	0.2 max	0.2 max	0.1 max	0.05 max	0.15 max	Remainder

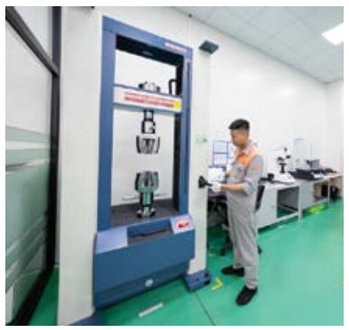
MECHANICAL PROPERTIES (Alloy No.: 6005, 6061, 6063, 6082)

Alloy No.	Temper Grade	Mechanical properties							
		Wall Thickness at specified measuring point (mm)	Tensile stress (N/mm^2)	Proof stress (N/mm^2)	Elongation %		Hardness test		
					A 50 (mm)	A	Wall Thickness at specified measuring point (mm)	HV5	Hw Typical value
6005	T5	6 max	245 min	205 min	8 min	-	-	-	13 min
		Over 6 up to and incl. 12	225 min	175 min	8 min	-	-	-	13 min
	T6	6 max	265 min	235 min	8 min	-	-	-	14 min
6061	T6	6 max	265 min	245 min	8 min	7 min	-	-	14 min
		Over 6	260 min	240 min	10 min	-	-	-	14 min
6063	T5	12 max	150 min	110 min	8 min	7 min	0.8 min	58 min	8 min
	T6	3 max	205 min	170 min	8 min	-	-	-	11 min
6082	T5	5 max	270 min	230 min	6 min	8 min	-	-	-
	T6	5 max	290 min	250 min	6 min	8 min	-	-	-
		Over 5 up to and incl. 25	310 min	260 min	8 min	10 min	-	-	-

QUALITY CONTROL PROCESS

Our quality process includes:

- The 5 Core Quality Tools – **APQP, PFMEA (DFMEA & PFMEA), SPC, MSA, PPAP**
- 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**) – Measure what we manufacture with precision.



Tensile Stress Testing



Hardness testing

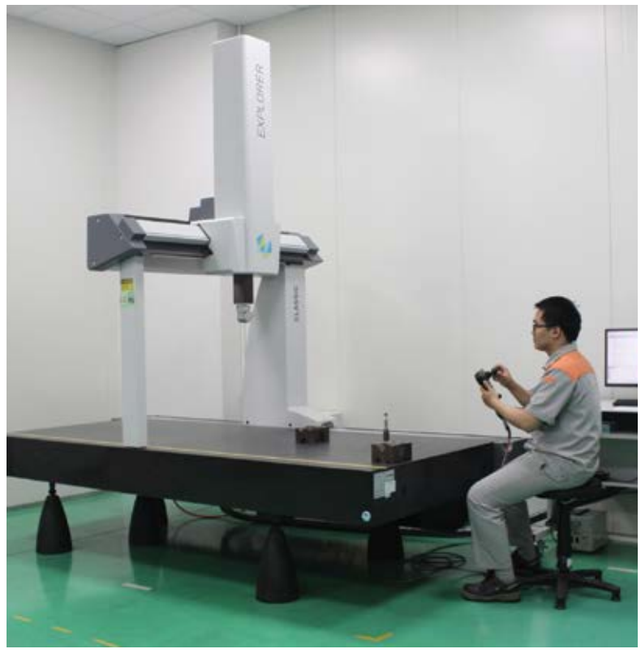


2D Manual Video Measurement



2.5D Vision Measurement





MANAGEMENT SYSTEMS

KIMSEN has been recognized as an **ISO 9001** and **ISO 14001** compliant system since 2016. Along with international standards for management system, we apply Japanese 5S - Kaizen and Lean manufacturing methods to maintain stringent quality standards in manufacturing processes, ensuring rigorous quality checks at every stage of production.

CERTIFIED ISO 9001 BUREAU VERITAS

ISO 9001:2015
Quality Management System

CERTIFIED ISO 14001 BUREAU VERITAS

ISO 14001:2015
Environmental Management System

CERTIFIED IATF 16949:2016 COMPANY

IATF 16949:2016
International Automotive Task Force

5S: SORT, STRAIGHTEN, SHINE, STANDARDIZE, SUSTAIN

LEAN MANUFACTURING

PRODUCT CERTIFICATIONS

EUROPEAN NORM EN

EN 7-559:2016
Tolerances for Aluminium Alloy-extruded Profiles

JIS JAPAN INDUSTRIAL STANDARDS

JIS H 4100:2015
Specifies the standards of aluminum used for industrial activities in Japan

ASTM INTERNATIONAL Standards Worldwide

ASTM B221/B221M
Aluminium and Aluminum Alloy Extruded Bar, Rods, Wire, Profiles and Tubes Test

COMPLIANT · COMPLIANT · ROHS

RoHS 2011/65/EU *(Test report)*
Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

COMPLIANT · COMPLIANT · REACH

REACH
Registration, Evaluation, Authorisation and Restriction of Chemicals

PFAS FREE

PFAS FREE
Restriction of Per- and Polyfluoroalkyl Substances

SUSTAINABLE GROWTH WITH SOCIETY

Sustainable development, not only paying attention to business benefits but also making positive contributions to the society and environment, is the long-term orientation of KIMSEN Industrial Corporation.

The responsibility to minimize environmental and society impacts, save energy, maintain the landscape green - clean - beautiful, contribute to the development of the local economy are among important criterias besides production and business efficiency.

FUNDRAISING ACTIVITIES TO BUILD PRESCHOOLS

With the desire to help underprivileged children living in mountainous areas, over the years, KIMSENers have joined hands with other benefactors to build many new schools, helping students have a spacious school to learn and develop.





VOLUNTEER PROGRAM "MÙA GIÓ ẤM"

KIMSEN is a gold sponsor for the “Mùa Gió Ấm” volunteer program of Foreign Trade University students.



THE CONTEST "RUN WITH KIMSEN”

The contest is a great chance for all KIMSENers to embrace the spirit of sports, stay active, and improve their health. It also offers a fun and engaging playground where everyone can connect, share experiences, strengthen teamwork, and spread positive energy together.



On the path of development, KIMSEN has always focused on the formulation and development of identity, corporate culture, to create consistency across all operations of the company. Recognizing the importance of the contribution of each individuals to sustainable development of the company, KIMSEN keeps building dynamic, professional and equal working environment of opportunity for all employees of the company in order to maximize the capacity and creativity of individuals.



TRAVELLING & TEAMBUILDING



YEAR END PARTY



KNOWLEDGE SHARING



ANNUAL HEALTH CHECK



SPORTS ACTIVITIES

SUSTAINABLE GROWTH WITH SOCIETY

Through dedicated product development for electric vehicle industry (including electric cars, buses, and trucks) and renewable energy sector (solar), KIMSEN has taken an active role in the global supply chain, furthering the aim of carbon emissions reduction and environmental sustainability.

ENVIRONMENTAL RESPONSIBILITY

As a manufacturer, KIMSEN always strives to build a green and clean working environment to minimize waste chemicals to the surrounding environment.

ALUMINUM RECYCLING

After quality testing, aluminum scrap will be recycled to be used as raw materials for other production processes.



WASTEWATER TREATMENT SYSTEMS

Aware of corporate responsibility in protecting the environment, KIMSEN has focused on installation of modern waste-water treatment system, and application of Environmental Management Procedures ISO 14001:2015 at the same time to ensure wastewater output quality full compliance with the law. The application of environmental management system according to international standards is KIMSEN's commitment to contribute positively to environmental protection.



ANCILLARY SYSTEM

In order to ensure efficient, safe and sustainable factory operation, KIMSEN has invested in modern ancillary systems such as water supply system, power station system, gas station, rooftop solar mounting system, etc. This contributes significantly to the sustainable development of our Company.

OUR CLIENTS

Panasonic viettel DAIKIN

VNPT VINFAST K2 systems

OUR MARKETS

Besides being supplied to the domestic market, our aluminum products have been exported directly and indirectly to overseas markets.



KIMSEN

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Specifications are subject to change without notice.