

HODAKA



Dedication. Innovation. Sustainability.

Competitive Prices x High Quality Product x Best Service

www.hodakatec.com



Our Company

Founded in 2002, Taiwan Hodaka specializes in aluminum alloy design and development, billet casting, and precision extrusion, with the aim of providing our customers the finest quality aluminum alloy materials. In recent years, we have consistently expanded our production facilities to enhance our manufacturing capacity, in response to market dynamics and customer demands. Through the integration of billet casting, extrusion, and various processing processes, our one-stop comprehensive manufacturing services can aid our customers in quickly producing aluminum prototype samples. Furthermore, our manufacturing facilities include billet casting experimental line, materials testing laboratory, anodizing experimental line, coupled with automated production lines and traceability management system, enabling us to provide technical integration and rigorous quality controls from alloy development verification to finished product inspection and analysis. We have also obtained internationally quality management system certifications like IATF16949 and AS9100. Through our dedication to aluminum industry, we have become an accredited supplier for numerous prominent international industry leaders.



Our Advantages



One-Stop Service

Intergrate aluminum fabrication processes, such as billet casting, extrusion, precision drawing, forging and CNC machining.



Two-Ton R&D Billet Casting Experimental Line

Reduce the cost of alloy development and enhance verification efficiency by conducting small-scale batch verification.



Alloy Design

Customizing alloys based on end product application requirements, to enhance the product value.



Traceability Management

Utilize process monitoring systems and cloud database for comprehensive production traceability.



Sustainability

Construct roof-top solar system, adopt low-carbon ingot, and enhance the utilization of recycled material upto 100%.

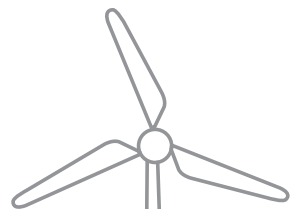
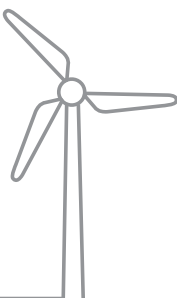
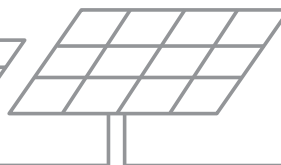
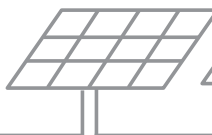


ISO 17025 Accredited Laboratory

Internationally accredited, credible quality testing technology.

Environmental Commitment & Corporate Social Responsibility

In accordance with the global trend of energy conservation and carbon reduction, Hodaka has developed a carbon reduction plan, transitioning from a low-carbon approach to reach net zero emissions. Our new process increases recycled materials' applicability. We can use 100% recycled materials without compromising quality. Moreover, we uphold Corporate Social Responsibility as a core principle and are committed to environmental preservation. We solemnly pledge not to purchase or use conflict metals and insist on producing top-quality materials at the lowest cost under the premise of absolute safety and resource sustainability. Our employees are Hodaka's most valuable asset. Together, we strive to become an international enterprise dedicated to sustainable prosperity.



Industrial Applications



Aerospace

2, 6, 7 series alloy
structural parts, fasteners,
low-orbit satellite components



Consumable Electronics

6063, 6061, 6013
7003, 7005, 7046
devices' cases,
external appearance parts



Automobiles

6061, 6063, 6082
automotive trim, wheel rims,
chassis structural parts



Bicycle

6061, 6056, 6069 / frames, rims
7003, 7005 / frames
7050, 7068 / front forks,
shock absorbers



Sports / leisure

7050, 7068 / Lacrosse sticks,
baseball bats,
customized high-strength
aluminum-scandium alloys



Fastener & Wire Applications

2, 5, 6, 7 series alloy
rods, wire coils

HODAKA

Process Capabilities

One-Stop Service



Billet Casting

3"-14" Billet
Vertical Direct
Chill Casting



Plastic Working

Extrusion

Direct Extrusion	Indirect Extrusion
Rod / Plate Solid / Hollow	Seamless Tubes

Forging

Hydraulic Forging

Hydroforming

Hydroforming Tubes

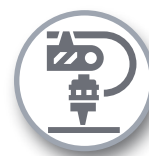
Precision Drawing

Drawing of Rods / Tubes / Wires



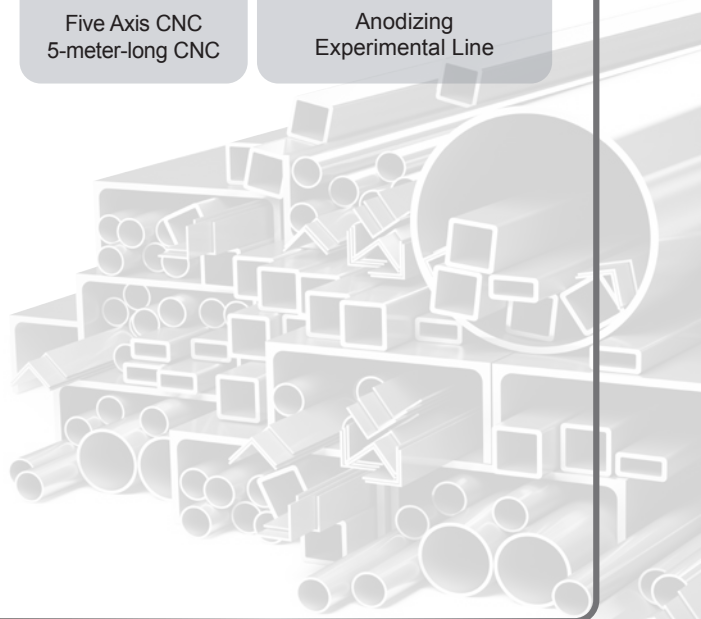
Machining

Five Axis CNC
5-meter-long CNC



Surface Treatment

Anodizing
Experimental Line



R&D Capabilities

Alloy Development

Alloy Design and Analysis

Predict alloy performance via alloy simulation calculation in conjunction with material thermodynamics databases.

R&D Experimental Line

Equipped with graphite crucible with mass-production-level degasser, filtration equipment, and air-slip casting system.

Process Optimization

Heat Treatment Optimization

- Laboratory-grade solution furnace and aging furnace.
- Optimizing thermal treatment conditions via establishing the aging curves to set proper thermal treatment parameters.

Extrusion Optimization

- Predict extrusion through CAE simulation to optimize extrusion die design.
- Verify the extrusion die matches the design drawing precisely through 3D optical scanning.
- Fine-tune material microstructure and properties through extrusion parameters to meet products' requirements.

Verification Analysis

Properties Analysis

TAF accredited mechanical property test, composition analysis, corrosion test and micro-structure analysis laboratories.

Anodizing Experimental Line

- Perform rapid anodizing verification.
- Offer consultation and recommendations on anodizing from a material perspective.



The aluminum alloy material manufacturer with comprehensive
vertical integration and R&D innovation capabilities.



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