



YUNNENG

Jiangsu Yun Neng New Material Technology Co.

High- performance and reliable professional
heat exchanger aluminum tube manufacturer

Product
Brochure



Hard Technology
New Materials
More efficient and safer



The company has strong technical force, the core team has leading technology research and development capability and many years of industrialization experience, and has established joint R&D laboratories with Xi'an Jiaotong University, Nankai University, Changzhou University and other universities and research institutes. The company is the first manufacturer of corrosion-resistant high-toothed aluminum tubes in China, and has passed ISO9001, ISO14001 and ISO45001 quality management system certifications, and owns a number of patents of



Jiangsu Yun Neng New Material Technology Co., Ltd. is a high-tech business with a complete industrial supply chain that specializes in the development, production, and marketing of high-quality precision aluminum tube materials.

The company is committed to developing innovative materials and components made of aluminum that are extremely precise and highly corrosion-resistant for the global refrigeration, thermal engineering, and new energy areas. In China, the firm is the first to produce corrosion-resistant high-toothed aluminum tubes.



The company has cutting-edge automated production equipment, the industry's leading composite forming process production line, and complete hot extrusion, composite molding, coil pulling, joint pulling, heat treatment, straightening and cutting, flaw detection and rewinding production equipment, as well as advanced testing equipment.

The organization can generate more than 10,000 tons of various types of It has the capacity to produce about 10,000 tons of high-performance, high-reliability heat exchanger aluminum tubes of varied specifications per year.

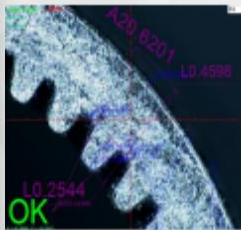
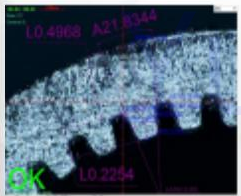
Aluminum tubes with an annual output of more than 10,000 tons of high-performance and extremely reliable heat exchanger standards.

The company is always committed to scientific and technological innovation, invests in cutting-edge industrial technology, and tries to continually empower consumers and industry partners to collaborate for a win-win situation.

Internal Grooved Tube

More reliable and efficient heat transfer elements

For evaporators and condensers in refrigeration heat transfer equipment



Examples of main production specifications:

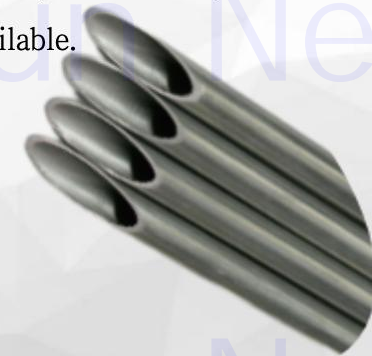
Model Number (Material)	State	SWAAT > 1000 h		Tensile Strength 95-130 Mpa		Yield Strength 50-80 Mpa		Elongation ≥ 32%		Flare > 40%	
		Outside Diamete r/mm	Thickness/ mm	Tooth Depth/m m	TWT/mm	Addendum Angle(°)	Helix Angle(°)	Number of Teeth	Shape		
3003	O	5-13	0.3-0.8	0.05-0.25	0.35-1.05	16-60	0-30	30-70	Coil		

Customized anti-corrosion alloy aluminum can be used, better performance, corrosion prevention effect is 10 times higher than 3003 aluminum.

Ultra-fine internal threaded aluminum tubes are currently used by a large number of foreign enterprises, and domestic leading enterprises such as Midea have begun to apply in large quantities. At present, the main tube specifications are mainly focused on

φ 7 and develop to φ 5.

- With better performance, less refrigerant, and a larger heat transfer area,
- Better tooth shape, better helix angle, higher heat transfer, lower costs
- Thin-walled, high-toothed, low-toothed, fine-toothed, small-toothed, and custom-toothed products are available.



Advantages of using aluminum Internal Grooved Tubes in heat exchangers

Condenser

Enhanced heat transfer – Increases the heat transfer area in the tube, which causes the condensate to leave the heat transfer surface and drain away due to surface tension. Reduces the thickness of the refrigerant film on the top of the teeth and between the channels. Increased turbulence of the liquid refrigerant, increased gas-liquid phase mixing.

Evaporator

Enhanced heat transfer – increase the heat transfer area, increase the number of gasification cores, promote the advancement of the undulating flow pattern to semi-annular and annular flow patterns, increase the turbulence of the liquid film.

Solar Thermal Collector Tube

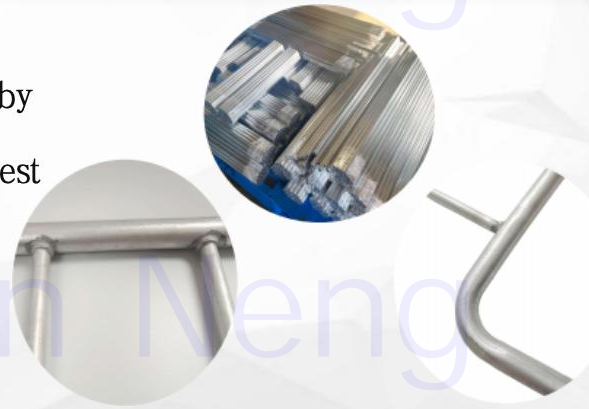
Better heat transfer, better corrosion resistance, better price/performance ratio, better heat resistance, better life time.

1

The tubes for solar flat plate collectors are made of special alloys, and the production processes from raw material purchasing, hot extrusion, cold drawing, heat treatment, surface treatment, etc. are all controlled by double regulations to ensure the best product quality. treatment, surface treatment and other production processes are controlled by double rules to ensure the best product quality. Resistant to 1500 hours SWAAT corrosion test.

2

Meet customer's performance requirements for post-production processes, such as flaring, hole-drawing, bending, welding, local cschemati, etc.



We can provide the whole heat exchanger tube assembly products, can support the welding technology or provide technical exchanges

Main model number and physical properties:

Product Name	Model Number (Material)	State	Salt Spray Corrosion Test >1500 hours			Pressure Resistance > 15 Mpa			Shape
			Outside Diameter/mm	Thickness/mm	Tensile Strength/Mpa	Yield Strength/Mpa	Elongation	Length/mm	
Main Size Example	Anti-corrosion aluminum alloy	H14	7-30	0.7-2.0	130-165	≥ 110	≥ 5%	Customized	Coil
		H12			115-150	≥ 75	> 12%		
		O			95-130	> 60	≥ 30%		

Can be customized to produce a variety of specifications of the collector tube



Power plant air cooling tube

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High-end, high-precision, high-strength, high-plasticity, large-diameter, thin-walled, high-quality products can be produced in large quantities. Alloy pipe is extruded by large tonnage extruder, which has higher product density, cold drawing process, and better control of product precision. Monthly output 300 tons.

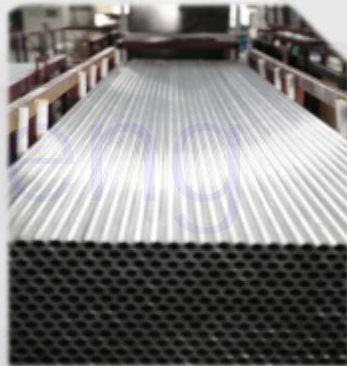
Production Process:

Raw Material Purchase - Inspection - Cleaning - Extrusion - Joint Drawing - Straightening - Precision Cutting - Inspection - Finished product packaging

Can meet the customer's needs for backstage pipe threading, flaring, tube rising, passivation, water inspection and other processing needs.

Model Name	Model Number	Outside Diameter /mm	Wall Thickness/mm	Maximum Length/m	Length/m	Tensile Strength /MPa	Non-proportional Elongation Strength /MPa	Elongation After Break A50/mm
Main Size	Series 1, Series 3	20-32	0.8-2.0		5-15	100~135	≥80	≥5.00

Physical properties according to national standards or customer requirements



The tube bundle is the core component of the space cooler. The tube bundle mainly consists of aluminum tubes, fins, tube box and frame.

Surface Type Condenser



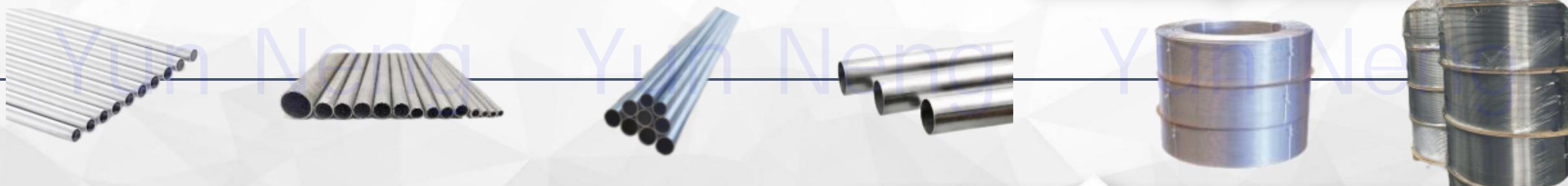
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Tubes for various heat exchangers

specializing in the fabrication of aluminum coils and tubes in various specifications that are suited for a range of refrigeration and heat transfer devices.

The main aluminum brands involved are Series 1, 3, 6, and special corrosion-resistant aluminum alloys researched and developed by ourselves. All raw materials are made of high quality remelted rods of famous brands, controlling the quality from the source.

We strictly control the quality during the production process and adopt advanced production technology and special heat treatment technology. To provide customers with the most stable and high-quality products



Main production size:

State	Model Number	Outside Diameter /mm	Wall Thickness/m m	Length/m m	Packaging method
H14,H 12,O, H112	Series 3	5-35	0.24-3.0	150-15000	Coil or Stright
	Series 1				
	Anti-corrosion aluminum				

Production Process:

Coil pipe

Raw material procurement-inspection-cleaning-extrusion-coiling-heat treatment-flaw detection-forming-inspection-finished product packaging

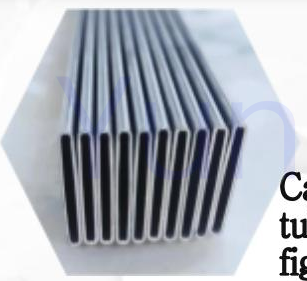
Stright pipe

Raw material procurement-inspection-cleaning-extrusion-coiling-straightening-flaw detection-fine cutting-cleaning-heat treatment-inspection-finished product packaging

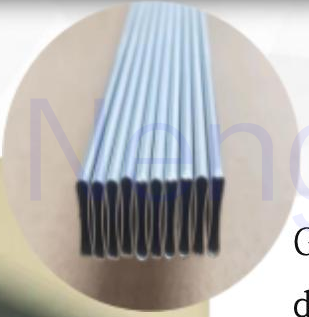




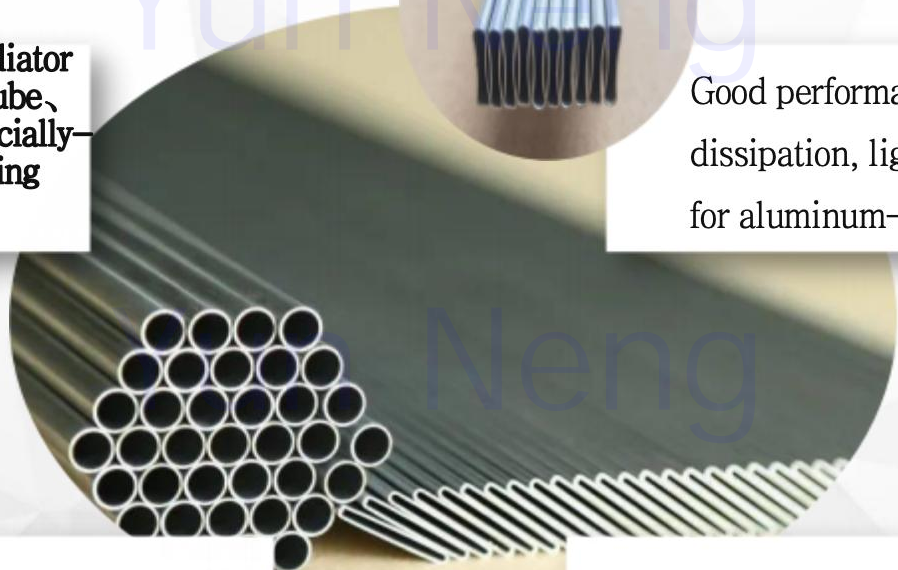
New energy car radiator tube、 Aluminum flat tube、 Specially-shaped tube、 Double-head annealing tube



Can produce thin-walled car radiator tube、 round tube、 o shape flat tube、 figure eight shaped flat tube、 specially-shape tube、 double-head annealing tube



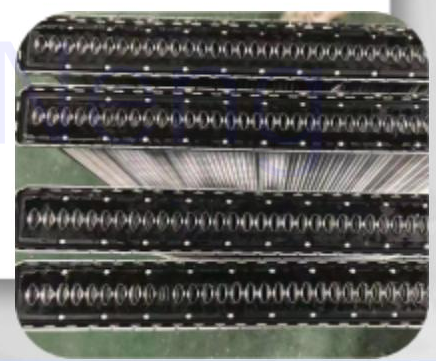
Good performance, high precision and low leakage rate. Fast heat dissipation, lightweight, corrosion-resistant products are suitable for aluminum-plastic water tanks, aluminum water tanks, etc.



Specializing in the production of various sizes of aluminum straight tubes, can provide a variety of MY2M aluminum tubes of various specifications, to meet the needs of the back-channel flaring, rising, bending, water inspection, etc. We can satisfy the needs of the latter process, such as flaring, bending, bending, water checking, and so on.



The products are applicable to all kinds of evaporators, condensers, dehumidifiers, cold dryers, heaters and other refrigeration and heat exchange equipment.





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允能智造 节能新材

CUSTOMERS & PARTNERS

Clean&cool Seiko, Solareast Holding Co.,Ltd., Shanghai Electric, FULLLINK, Fujitsu , Samsung, LG Corporation,GDS,Midea,Hisense etc.



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