





A new challenge that makes use of many years of technology

Atomic number 29, atomic weight 63.546. Copper is said to be the metal that human beings met the earliest, and due to its excellent characteristics, it has long been in close contact with our lives. Today, it is an old but ever-evolving metal that involved in the most advanced technical fields, including space development and information systems. From the founding to today, and in the future, we will continue to look at the "flow" and create various metal products such as heat exchangers and Inner Grooved Aluminum Tube according to the "flow" of the times.

We contribute to the improvement of the global environment by providing the foundation for comfortable social life.

Representative greeting

Since establishing Sumitomo Shindojo in 1897, we have continuously manufactured copper tubes. Through our long-term and abundant experience and research, we will deliver products and services that are constantly ahead of the times in the three business fields: freezing air conditioning, hot water dispenser, and energy. By doing so, we have contributed to the development of infrastructure around Japan and the world.

Recently the business environment surrounding us is changing rapidly, such as the development of the global economy, environmental issues such as the progress of global warming, and responding to the realization of low carbon and renewable energy society. In order to respond quickly to such changes, the NJT Group will comply with the following management philosophy and the Code of Conduct. We will contribute to society by reinvesting the "correct profits" obtained from there into R&D, new business development, and production facilities, and by returning profits to our employees in order to achieve sustainable business development.

Philosophy

We provide optimal products and services with excellent technical and product capabilities to meet the customer's challenge of pursuing high functionality of heat exchange products. By doing so, we will pursue the happiness of our employees and contribute to the improvement of the global environment as a foundation for comfortable social activities.

NJT Code of Conduct

Gratitude and trust : Always be grateful, honestly, and build trust in society by interacting with all stakeholders. Improvement and effort : Do not hesitate to make steady efforts, and accumulate improvements in the way forward. Ingenuity and transformation : In order to adapt quickly to the ever-changing external environment, we will take on the challenge of new ideas without hesitating changes. Execute boldly: With courage, change quickly and produce results



Tetsuro Monobe CEO

NJT Copper Tube has more than 100 years and history

1897	1930	1940	1950	1960	1970	1980	1990	2000	
1897 Sumitomo Head Office purchased Japan Copper Manufacturing Co., Ltd.	1935	After Sumitomo Ste Works, Ltd. merged	eel Tube & Copper with Sumitomo	1969	Sumikei Copper Industries, Ltd. was established at its present location, City of Toyokawa	1985	After merging with Sumitomo Light Metal Industries, Ltd., became Copper Works.	2006	Sumikei Copper
Plant in Ajikawa, Osaka. 1913 Sumitomo General Head Office changed	1941	Metal Industries. Sumitomo Metal Industries	dustries established Works (Minato-ku,			1990	Sumikei (Malaysia) Sdn. Bhd. was established	2011	Sumikei Coppe as a spin-off fro Industries, Ltd.
1921 Sumitomo General Head Office was	1947	Nagoya). Nagoya Light Alloy Copper Works Cere	Works renamed as				(Present NJT SOLUTIONS (MALAYSIA) SDN. BHD.).	2012	With the withdup urchase and to technology
and Sumitomo Copper Works became Sumitomo Goshi Kaisha Copper Works. 1926 Sumitomo Steel Tube & Copper Works,	1952	commemorate the s the company's copp Trade name returns Industries.	50th anniversary of per business. s to Sumitomo Metal	1975	Established the Technical Research Laboratories.	1996	Copper Works awarded a First Category of TPM Excellence Award by the Japan Institute of Plant Maintenance (JIPM). The Technical Research Laboratories renamed the Research and Development Contor	2013	Following the n Metal Indusitres Aluminum Corp corporation, the
Ltd. was established as a spin-off from Sumitomo Goshi Kaisha and inherited the business rights for Copper Works.	1959	Sumitomo Light Me was established by Aluminium Product Products Divisions f Metal Industries.	etal Industries, Ltd. separating the ts and Copper from Sumitomo			1997	Sumikei Guangzhou Metal Products Co., Ltd. established in Guangdong, China.	2019	The company re from the UACJ of to NJT Copper 1
	The history of copper products, technology, and products								
	Copper Alloy Tubes for Condensers						Development of titanium for condensers and brass duplex tubes.	2000	Started applica tubes in nuclea
A view of Sumitomo Shindojo Ajigawa Plant in the 1910s. *Photo provision: Sumitomo Historical Museum	1932	Started manufactu for condensers.	ure of 'Albrac tubes'	1963	Development of 'AP Bronze' alloy tubes for condensers (receives Okochi Memorial Foundation Production Prize)	1982	Started delivery of titanium tubes to nuclear power plants.		
				1970	Started delivery of titanium tubes to		2015	Expand sales v	
	1952 Started rese	Started research o	arch on titanium.	1976	Development of 'APF', inner corrosion resistance process technology for condensers.	1996 Development of condensers lined with titanium (awarded the Technology Aw. of the Japan Copper and Brass Associa	Development of condensers lined with titanium (awarded the Technology Award of the Japan Copper and Brass Association).		for Heat Excha
	Inner (Grooved Copp	per Tubes for .	Air-cond	ditioning (Ripple-finned tubes)	1983	Improved ripple-finned tubes (FF type).	2002	Individual deve grooved coppe of compatibilit
				1979	Started production of inner grooved	1987	Improved ripple-finned tubes (FN type).	2003	oil with high lu Started mass-p
					copper tubes (Ripple-finned tube: AA type).	1994	Improved ripple-finned	2006	Introduction o equipment for heat exchange
						1998	Improved ripple-finned	2008	Started manuf finnned tubes. mass-producti
							tubes (High lead angle type).	2014	strength coppo Started mass-p Defend Ant's N
	Variou	ıs metal proc	cessing tubes	s, heat e	xchanges, fittings, etc.	1984	Started selling Copper Heat-Pipe.	2006	Introduction o equipment for
	1933	Started production for water supply.	n of copper tubes	1972	Introduction of technology used in insulated copper tubes 'PRISOL Tube P-STC'.	1990	Development of 'STC', inner super-thin insulated copper tubes for building piping.	2009	heat exchange Mass productio (Hokkaido exc
			2	eses hill			2012	Started mass p Started mass p Tubes. Started mass p Exchanger in E	
				1979	Started selling Electrode Material Cu-Cr-Zr (08).			2018	Started mass p Started mass-p

2010 r Tube Sales Co., Ltd. Established 2021 The company absorbed its domestic consolidated subsidiaries; NJT Copper Tube er Tube Co., Ltd. was established Sales Corporation, Toyo Fitting om Sumitomo Light Metal Co., Ltd., NJT Copper Tube Packaging Corporation, NJT rawal of Hitachi Cable, Ltd., Green Service Corporation. ransfer of equipment and merger of Sumitomo Light 2021 Launch aluminum es, Ltd., and Furukawa-Sky business at Malaysian poration to establish UACJ plant. e company name was changed r Tube Corporation. received capital independence Group, and its name changed Tube Corporation. ation of titanium duplex 2020 End of manufacturing and ar power plants. sales of titanium tubes

volume of copper alloy tubes angers used for Sugar Mill.

elopment of rolling oil for innerer tubes and achievement y of low amount of residual ubricating performance.

production of thick type for nines.

of performance assessment heatexchanger tubes and ers using CO₂ refrigerants.

facture of thin-walled ripple-. Started ion of higher tubes.



production of "DANT®": Nest Corrosion Tubes.

of performance assessment heat-exchanger tubes and ers using CO₂ refrigerants.

ion of CT-Shuts begins clusive products).

production of Thermoexcel. production of Cross Rouletted

production of Water Heat

EcoCute machines.

production of CLTs.

production of RG press.

We will deliver safety and security to your life.

We are developing new products such as heat exchange products that are friendly to the global environment and support refrigerant saving by making full use of the technology based on our many years of experience and maximizing the characteristics of materials.

For air conditioner

The heat exchanger of air conditioner uses a heating tube with a spiral groove on the inside. Our Inner Grooved Copper Tube has been trusted by customers for over 40 years. In addition, NJT is actively promoting product development and technological innovation, such as "DANT®" copper tube which suppress ant's nest corrosion, and "Inner Grooved Aluminum Tube". Open the covers of the air conditioner indoor unit. There are our products in it.



Inner Grooved Aluminum Tube Copper Tube

Tubes (DANT®)

We offer a variety of high-performance heat exchanger models that utilize various in-house manufactured heat transfer tubes by combining our brazing and other copper tube machining techniques, our heat exchanger design capability and our evaluation techniques.

Bearing Oil Cooling Unit

Heat exchangers



Water-CO₂ Heat Exchanger



Thermoexcel **Bimetal Finned Tube** Complex surface and cross-sectional shapes can be freely processed, dramatically improving heat transfer performance.



Water Cooled Reactor Coil

Copper tube

maximum

production quantity annually



For refrigerator

A refrigerator is indispensable for daily life. The refrigerator is not only the cooling performance of the heat exchanger, but also its reliability. Our products also use it for improving the life of equipment and improving reliability.



about **48,000** tons

For air conditioning equipment

An air conditioning equipment is indispensable for living now. Our products are often used on the back stage of the building. Our Fittings for copper plumbing tubes has a history of more than 60 years, and its reliability has been highly evaluated. We are proceeding developing "RG press" that allow



The spiral grooves can achieve a thermal transmission rate equal to or higher than the inner grooved copper tube, and the heat transmission performance can be improved than the extruded straight grooved aluminum tube.



Inner Grooved Aluminum Tube



Electrode Material Cu-Cr-Zr

Copper with extremely high electric conductivity and superb workability are widely used as an electrode materials for spot welding in the automobile industry

STC Copper Tube



Application product of

Copper tube

a uniform laver of tin on the inner surface of the

tube using a special technique. This greatly reduces the elution of copper ions, making the tubes exceptionally resistant to pitting and corrosion.

Floor Heating Panel

This hot-water type floor heating panel is a clean heater system to transfer heat to the floor by culating hot water in the copper tube.



Medical Color Tubes

These copper tubes are manufactured for use as medical gas piping with extremely clean inner surfaces. The film coatings are color-coded according to the type of medical gas used, and the names of the gases are printed on the tubes to prevent incorrect piping mistakes.

Duplex Tube Heat Exchanger with Thermoexcel

RG press



Low Finned Tube, Middle Finned **Cross Rouletted Tube** Tube, and High Finned Tube



safe and certain work in short time even for unskilled contractors and various one-touch joints for piping of hot water.

Thermoexcel Aluminum Tube

Motor armatures for cars (commutators)

Copper alloy tubes are used exclusively as condenser tubes at nuclear/ fossil power plants and desalination plants throughout the world.



Heat-Pipe

A heat-pipe is a heat transfer element: a metalic pipe which has a capillary structure inside is vacuumized and partially filled with a working fluid such as water

Cooler for IGBT, GTO thyrister





Process

strength

using ultrasonic thickness measuring instruments

High-purity coppe cathode is melted in a shaft furnace into molten copper.

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Measurement of mechanical properties by tensile test machine, hardness meter, etc.

Corporate Outline

Corporate name	NJT Copper Tube Corporation
Established	October 2011
CEO	Tetsuro Monobe
Capital	100,000,000 yen
Shareholder	Aspirant Group Inc. (75%) Daiwa PI Partners Co., Ltd. (25%)
Employees	About 600
Business	Manufacture and sales of copper and copper alloy ingots tubes and bars, and Application Product such as various metals application tubes, heat exchangers and fittings.
Head office	Shinmichi, Ogi-cho, Toyokawa-shi, Aichi 441-1295, Japan
Subsidiary	NJT SOLUTIONS (MALAYSIA) SDN. BHD.
Location	Lot P.T.630, Jalan Emas 1, Nilai Industrial Estate,
	71800 Nilai, Negeri Sembilan Darul Khusus, Malaysia
TEL	+60-6-7992130

While contributing to development of the local community, we will utilize our global procurement capabilities to propose and manufacture optimal and environmentally consideration products.



Summer festival





Head office; Copper Works JIS H 3300, ISO9001/ISO14001 certified factory.

West Japan Sales Section

Fittings & Plumbing tubes Sales Section, Osaka Group

Fittings & Plumbing tubes Sales Section, Kyusyu Group

Fittings & Plumbing tubes Sales Section, Nagoya Group

Fitting Plant

Hongu Center/ Tobishima Center/ Enjaku Center JIS H 3401, JWWA H 102, ISO 14001 certified, JCDA 0001 certified factory.



Malaysia office NJT SOLUTIONS (MALAYSIA) SDN. BHD.

Production item; Inner Grooved Aluminum Tube

East Japan Sales Section

Application Product Sales Section

Fittings & Plumbing tubes Sales Section, Tokyo Group





Hongu Center



NJT Copper Tube Corporation

Head office / Copper Works

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West Japan Sales Section

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Fittings & Plumbing tubes Sales Section

• Tokyo Group

1-8-1, Nihonbashi Kayaba-cho, Chuo-ku, Tokyo 103-0025, Japan

Nagoya Group

1-27, Hongu-cho, Minato-ku, Nagoya-city 103-0026, Japan

Osaka Group

4-2-16 Koraibashi, Chuo-ku, Osaka-shi, Osaka 541-0043, Japan

• Kyushu Group

1-5-1, Hakata Ekimae, Hakata Ward, Fukuoka-city 812-0011, Japan



