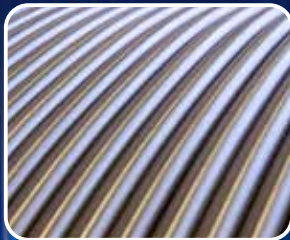


# NUCLEAR POWER TUBING

PRECISION METAL TUBES ENGINEERED FOR  
SAFETY-CRITICAL NUCLEAR POWER APPLICATIONS.

Our high-quality tubes are engineered for  
extreme heat, pressure and corrosion resistance.



## TUBING EXCELLENCE

With more than 90 years of engineering expertise in manufacturing high precision tubes, Fine Tubes and Superior Tube work closely with customers worldwide, to solve their technical and metallurgical challenges.

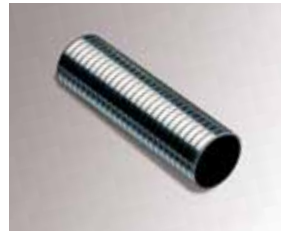
We manufacture quality assured tubes in a wide range of stainless steel, nickel, titanium and zirconium alloys for critical nuclear, thermal and solar power applications.

## TUBING INNOVATIONS

Fine Tubes and Superior Tube benefit from a world-class reputation for innovative and high quality tubing solutions geared towards the power industry. Here are a few examples:

**1940**

Superior Tube supplies tubing for the Manhattan Project, where mankind first learned to control the energy of the atom.

**1970**

Fine Tubes develops 20-25Nb nuclear fuel cladding and supplies for the UK's first generation of Advanced Gas Reactors.

**1954**

Superior Tube manufactures zirconium reactor tubes for the first nuclear powered submarine, the USS Nautilus.

**2000**

The Tennessee Valley Authority's Watts Bar nuclear reactor facility uses Zirconium Zr4 tubing from Superior Tube.

**1957**

Superior Tube supplies cladding to Shipping port Atomic Power Station, the first plant to produce electricity for a civilian population.

**2008**

Fine Tubes supplies CERN with cooling tubes for the Large Hadron Collider experiment.

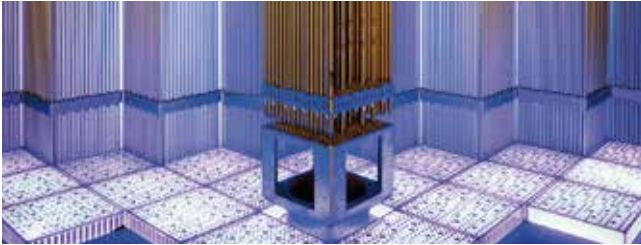
**1960**

Superior Tube produces fuel cladding for Argonne National Laboratory's Experimental Breeder Reactor-II.

**2012**

Fine Tubes manufactures high performance tubing for the Gemasolar thermosolar plant in Spain.

## TUBING SOLUTIONS



### NUCLEAR POWER

With a legacy dating back to the 1930s, Fine Tubes and Superior Tube have been at the forefront of the nuclear industry, engineering precision tubing solutions for in-core reactor components. Our products are trusted in environments where safety is paramount—withstanding extreme temperatures, pressures, and radiation.

From supplying fuel can tubing for the UK's AGR program to supporting a wide range of reactor technologies—including PWR, PHWR, LWR, BWR, and FBR—we've continually evolved to meet the industry's most demanding requirements.

Today, our global partnerships span new builds, plant refurbishments, and the development of next-generation Small Modular Reactors (SMRs).

#### NUCLEAR APPLICATIONS INCLUDE

- Primary and field instrumentation
- Control Rods/RCCA's
- Fuel cans
- Cladding tubes



### THERMAL POWER

We manufacture precision tubing for hollow conductor applications and cooling systems in turbine generators—whether water-cooled or helium/hydrogen-cooled.

Our vertically integrated manufacturing capabilities allow us to supply seamless or welded & redrawn tubes for low pressure and high pressure heaters.

#### THERMAL APPLICATIONS INCLUDE

- Control and instrumentation
- Steam turbine generators
- Super heaters
- Condensers



### SOLAR POWER

Our expertise in processing exotic alloys for precision tubing played a critical role in the success of Gemasolar—the award-winning commercial solar power. We delivered mission-critical heat exchanger tubing for the plant's high-efficiency thermal energy conversion process.

In close collaboration with our customer, we manufactured specialized corrosion-resistant tubing for molten salt heat exchangers. These tubes were used in both the steam generators and the central tower receiver.

#### SOLAR APPLICATIONS INCLUDE

- Control and instrumentation
- Heat collectors
- Heat exchangers
- Super heaters
- Condensers



TUBING QUALITY		
RCC-M	NADCAP Heat Treatment	NADCAP NDT
NADCAP Welding	ASME NQA-1	10CFR50-Appendix B
ISO 9001 / AS EN 9100 by BSI	ISO 14001	ASME QSC NCA3800 (2011)

Tubing supply is based upon the technical requirements of ASME III.

## ABOUT AMETEK SPECIALTY METAL PRODUCTS

AMETEK Specialty Metal Products consists of six leading manufacturers of advanced metal products based in the USA and UK: Fine Tubes, Superior Tube, AMETEK Eighty Four, Coining, Hamilton Precision Metals, and AMETEK Wallingford.

Our extensive product range includes thermal management materials, metal tubes, strip, shaped wire, clad plate, powder, bonding wire and ribbon, solder preforms, and bond pads.

From powering aircrafts and space rockets, to advancing medical care, and accelerating the transition to renewable energy – our precision materials enable technological innovations.



**SuperiorTube**



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