



PRODUCT CATALOG

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DURAFINTUBE

We are committed to the highest level of excellence in all that we do. We strive to provide the best pricing, quality, and fastest service in the industry.

DuraFin Tube is a fin tube manufacturer and a production driven corporation with a large appetite for challenge. We strive to provide the best pricing, quality, and fastest service in the industry. Our record shows that our innovative solutions for difficult applications, low costs, and high volume bring our customers back every time. We guarantee your satisfaction with friendly service and a prompt response with quotes. Our mission does not stop there; streamlined production setup, outstanding quality control, and fast delivery of our products set us apart from the competition!

Core values

Dedication

Respect

Integrity

Value Creation

Excellence



What You Can Expect

When you work with DuraFin Tube, you'll notice a superior manufacturing experience throughout the entire stage of the development process. We maintain a flexible approach to accommodate nearly any customer request. Our product lines are customer influenced, driven by the market and specifically tailored to solve your unique challenges and demands. Innovation is one of our core values. Serving customers is the center of our business. Our service-oriented customer support is the foundation of our success.

DuraFin Tube features

- Supply Chain Stability
- In-house Machine Shop
- Tooling Engineers
- Product Development
- Flexible, Rapid Response
- Intensive Leadership Driven by Mechanical Engineering

Quality is more than a goal: It's a tested, proven metric. All of our finned tubes are subjected to rigorous quality testing to ensure viability and efficiency. We hold ourselves to a higher standard. The result is a quality, reliable tube you can trust.



Kenny Barkan

From the President

DuraFin Tube wants to thank you for being a partner with us in American manufacturing. We consider every customer order a reflection of our organization. That means we hold a very high value in performing with integrity and excellence. This is further reiterated by our ultimate desire to operate a values based organization.

From the beginning, our company has always striven to please God. He is our Senior Partner. We have a higher calling than to just ship product. We ultimately answer to God for how we operate our business. Although we never claim to be perfect and sometimes make mistakes, we will work hard to make it right when we do.

You should expect an exceptional experience when you work with your DuraFin Tube Team. If you have any comments or concerns, you are welcome to contact me.



Applied Finned Tubes





DURA-I: Edge Tension Finned Tube

DuraFin Tube offers our standard Edge-Tension fin tubes available in similar or dissimilar metals. Edge tension finned tubing is recommended for moderate duty in normal ambient air applications and on most low-temperature air cooled heat exchangers. During the manufacturing process, fin material is tightly wound around the outside of the tube to secure metal-to-metal contact of the base of the fin with the tube. The Edge Tension Fin can also be supplied with the DURA-IS solder or DURA-IB brazed fin bond.



DURA-IB: Edge Tension Brazed Finned Tube

Brazed finned tubing from DuraFin Tube offers a solid metallurgical bond between fin and tube, making it ideal for rigorous, high-temperature applications. When the tube expands or shrinks due to temperature changes, the brazed bond never relaxes its grip. DuraFin Tube offers brazed finned tubing in similar or dissimilar metals for increased heat transfer efficiency.



DURA-IS: Edge Tension Soldered Finned Tube

DuraFin Tube offers two distinct types of soldered finned tubing: root solder and solder-coated. Root soldering involves a special DuraFin Tube technique that uses enough solder to create the bond between the tube and the base of the fin thus avoiding bridging. Solder-coated finned tubing covers the entire fin and tube surface with the alloy. Lead-free Tin alloys are available for all soldered products.



DURA-IT: Edge Tension Corrugated Finned Tube

DuraFin Tube Edge Tension Corrugated Finned Tube offers two enhancements to thin-walled tubing. The DuraCor® corrugation on the inside diameter of the tube assists in heat transfer by creating a spiral groove. The DuraFin® finned tube is embedded into the groove causing excellent tube to fin engagement. DURA-IT is also available with brazed or soldered fin to tube bond for further heat transfer enhancement.



DURA-L: L-Footed Finned Tube

Highly efficient yet cost effective, DuraFin® L-footed finned tubing offers maximum heat transfer at lower temperatures. The unique L-shaped design holds fins rigidly to withstand heat cycling and high velocity air vibration. The L-Foot Finned Tube can also be offered in following variations to the Fin: Knurled Fin, Double Overlap Fin, Perforated Fin.



DURA-G: Embedded Finned Tube

DuraFin Tube embedded finned tubing offers exceptional thermal efficiency at higher temperature ranges with solid fin-to-tube contact. Fins are mechanically locked into a helical groove in the outside of the tube. Rollers press displaced metal from the groove against the base of the fin to form a lasting metal-to-metal bond. The Embedded Finned Tube can also be offered in following variations to the Fin: Perforated Fin.



DURA-W: Wrinkle Finned Tube

The Wrinkle Fin attachment is a surface variation to the Edge Tension fin tube. This enhancement breaks up the air to enhance heat transfer. It uses symmetrical waves in the radial surface of the fin as it contacts the tube. The fins are tack welded to the tube at each end of the fin section to ensure contact. The fins are also thicker sheet metal, typically 0.030" to 0.060" thick, which makes them very robust. Wrinkle Fin enhancement is commonly used in heavy duty applications and rough environments.



DURA-J: Micro Finned Tube

DuraFin Tube's solder coated micro finned tubing provide heat transfer in a variety of cryogenic and biomedical applications. This hypodermic needle-sized finned tube is offered in tube OD's as small as .015", with fin counts as high as 125 fins per inch.

Our story

When Ken Sr. first began DuraFin Tube as Machine Dynamics & Engineering, Inc. in 1984, his first customers came to him because there was nowhere else to turn. He identified the need for a world-class finned tube provider that could offer a better solution with a complete diversified selection. The son of a boiler shop machinist, our founder Ken Barkan Sr. first learned to make finned tubes from his father Louis Barkan. Straight out of college, Ken Sr. helped several companies set up their own finned tube shops. Yet dissatisfied with the solutions then available on the market, he set out to design his own.

From a Niche Provider to an Industry Standard

Ken Sr. progressively grew the business from a niche provider into an industry standardized solution with the largest variety of finned tubes and surface tubing heat exchanger equipment in North & South America. He bought out his then competitor Energy Transfer, Inc in 2003 and renamed the company. The company name was later re-branded in 2022 with the dba DuraFin Tube.

Core Business Philosophy

We are a successful business that operates with a crystal-clear vision that is shared by everyone. We strive to utilize our best resources by hiring the right people and placing them in the right seats. We stay in touch with our operations by watching and managing a handful of numbers on a weekly basis. We operate as a collection of high-performance teams working together for the good of all. We have an open and honest environment that promptly identifies and solves issues. We document our processes and ensure that they are followed by everyone. We provide each employee with established priorities and ensure a high level of trust, accountability, and communication. We utilize this success to enhance the world by growing our business, supporting our employees, and serving our community.

Manufacturing Capabilities

DuraFin Tube has been producing for over 40 years. DuraFin Tube continues to offer a variety of finned tubes, machining, assembly and coils. Our advances in new techniques also allows us to specialize in enhanced surface technical tubing. We are well versed in a variety of finned tubing with quality that sets standards in the industry. We have the capabilities for many other customized material combinations!

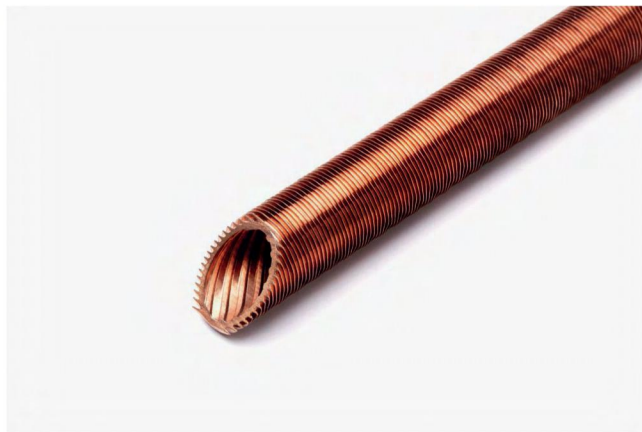
Low Finned Tubes





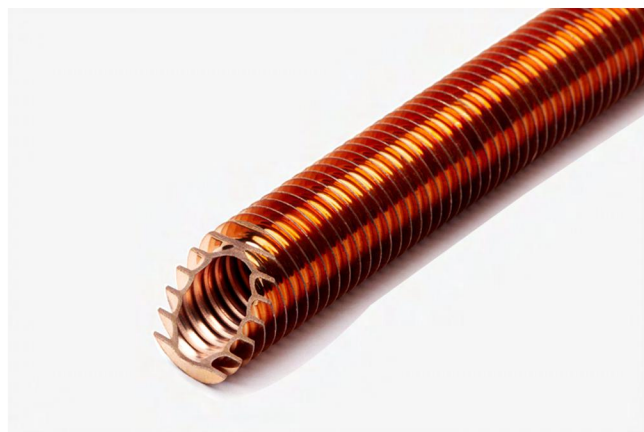
DURA-K: Low Finned Tube

DuraFin® Low Fin (Integral) tubing is a type of extruded tubing that consists of short low fins. The low fin tube has the advantage of adding surface area to a smooth tube while maintaining the same outside diameter. Low Fin Enhanced tubes can be used in standard shell and tube baffles and tube sheets.



DURA-KR: Rifled ID Low Finned Tube

This DuraFin® tube has the outside diameter surface characteristics of Low-Finned Tubes with the added enhancement of inside diameter rifling. The rifling grooves of the DURA-KR promote turbulent flow and better heat transfer through the tube wall.



DURA-M: Medium-High Finned Tube

The DuraFin® Medium-High Finned Tube is made from mono extruded copper alloys. The DURA-M fin height is within 0.140" (3.5mm). Extruded fin tubes are formed helically out of a mono-metal tube. The result is an integrally formed finned tube with an excellent fin-to-tube uniformity providing exceptional efficiency and longevity. Whether rough service, high temperatures, or corrosive environment, extruded fin tubes are a great option for heat exchanger applications.

Medium-High finned tubes can be annealed to a soft state for bending and coiling. This type of product is excellent for heating, refrigeration, machinery coolers, water heaters, and boilers.

High Finned Tubes





DURA-H MONO-EXTRUDED HIGH FINNED TUBE

The DuraFin® High Finned Tube is made from mono extruded copper alloys. The DURA-H High Fins are up to 0.400" (10mm) high. Extruded fin tubes are formed helically out of a mono-metal tube. The result is an integrally formed finned tube with an excellent fin-to-tube uniformity providing exceptional efficiency and longevity. Whether rough service, high temperatures, or corrosive environment, extruded fin tubes are a great option for heat exchanger applications. High Finned Tubes can be annealed to a soft state for bending and coiling. This type of product is excellent for heating, refrigeration, machinery coolers, water heaters, and boilers.

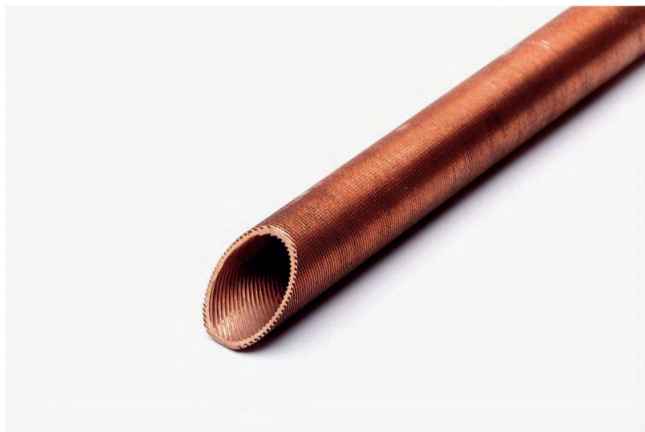


DURA-HB: BI-METAL HIGH FINNED TUBE

The DuraFin® Bi-Metal High Finned Tube is made from extruded fins with a different alloy liner tube. The DURA-HB High Fins are up to 0.625" (16mm) high. Extruded fin tubes are formed helically out of an aluminum alloy tube. The result is an integrally formed finned tube with an excellent fin-to-tube uniformity providing exceptional efficiency and longevity. Whether rough service, high temperatures, or corrosive environment, extruded fin tubes are a great option for heat exchanger applications. This type of product is excellent for warm air heating, air coolers, machinery coolers, power station coolers, and tower coolers.

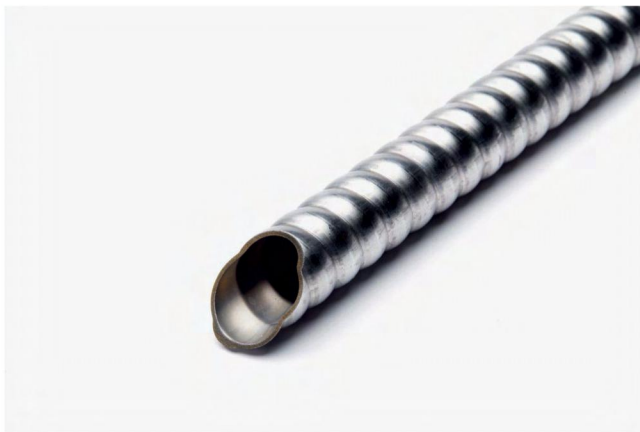
Enhanced Surface Tubes





DURA-C: Condenser Finned Tube

DuraFin® Condenser Tubing is a specially designed Low Finned Tube with both inside and outside features. The unique features reduce surface tension of gas or liquid to encourage condensing or evaporating.



DURA-T: Corrugated Metal Tube

DuraFin Tube offers a specialized type of DuraCor® corrugated metal tubing with increased surface area and turbulence to improve heat transfer efficiency. Metal corrugated tubing provides a rolled impression on the inside of the tube. The corrugation of a tube can be set to any depth or pitch to match our customers' requirement.



DURA-R: Custom Finned Tube

Custom Designed Finned Tube

DuraFin Tube prides itself with offering innovative solutions to the heat exchanger market. We can work with your design team to make customer specific surfaces on tubing.

CorruLock/ET

CorruLock/ET is a custom DuraCor® tube form that provides outside surface enhancements while "locking" the turbulator into the tube inside diameter. See the Twisted Tape Turbulator and the DURA-T for more information about the two joined products.

Flat Fin/ET

DuraFin Tube Flat Fin/ET finned tubing provides enhanced surface when the heat transfer media is moving longitudinal to tube. Flat Fin/ET copper fins are available with brazed or soldered fin-to-tube bond. This fin style is custom developed per the customer application and design.

Contact us to find out more information
about customized products.

Formed and Dimpled Tubes



DURA-F: Formed and Dimpled Tube

DuraFin Tube specialized DuraForm® formed and dimpled tubing is produced to meet diverse and complex heat exchanger problems. Formed Tubing is die formed to the shape. Typical shapes include flattened, dimpled, or impressed forms. These tubes are developed and prototyped in cooperation with the customer.

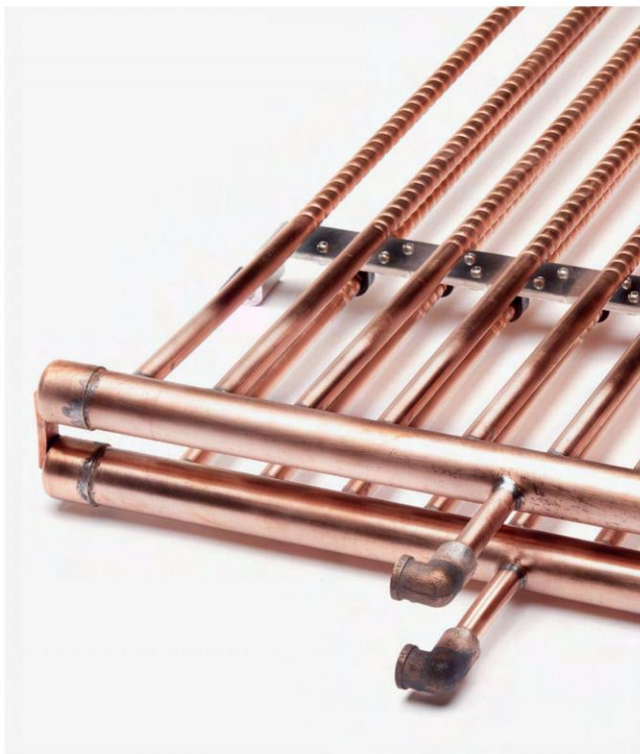
Heat Exchangers





HX: Heat Exchangers Assemblies

All DuraHX® heat exchangers are made to customer specifications. DuraFin Tube provides fabricated finned, enhanced, and smooth tube heat exchangers in a variety of configurations. These products can be fitted with tube collection devices such as manifolds, tube sheets, or header boxes. Heat exchangers can also be created by forming the tubing to almost any shape.



FX: Finned Tube Heat Exchangers

Bent or Coiled Finned Tube

All DuraFin® tubular heat exchangers are made to customer specifications. DuraFin Tube provides fabricated finned tubular parts in a variety of configurations. These products are fitted with tube end forming for all styles of end connections.



SX: Smooth Tube Heat Exchangers

Bent or Coiled Smooth Tube

All DuraFin® tubular heat exchangers are made to customer specifications. DuraFin Tube provides fabricated smooth tubular parts in a variety of configurations. These products are fitted with tube end forming for all styles of end connections.

Heat Exchanger Parts





TT: Twisted Tape Turbulator

The twisted style turbulators offer a large range of size and length to fit any application. Turbulators are inserted into heat exchanger tubing to increase the turbulent flow through a tube, effectively increasing heat exchange rates and abilities. Turbulators act to mix the fluid or gas on the inside of the tube.

***Note: Twisted tape turbulators are custom made for each application. Please call for more information.**



TC: Tube Support Collar

DuraFin Tube offers several different options to help provide stability and long life to our finned tubing. Collars can be used in high vibration and long tube length applications. Collars also reduce wear on fins that can lead to tube failure. Collars offered include cast-zinc, silicon, metal band, and packed fin. We can also place mid-bare sections (no fins) for customer supplied supports. Collars can be placed at any point throughout the length of the tube. Dimensional specifications are closely maintained to ensure proper fit.



TS: Tube Sheet/Baffle/Flange

DuraFin Tube CNC machine tools allow us to offer tubesheets, baffles, and flanges. Tubesheets are available in any machinable shape or configuration. Products can be machined to TEMA industry standards or as specified by customer.



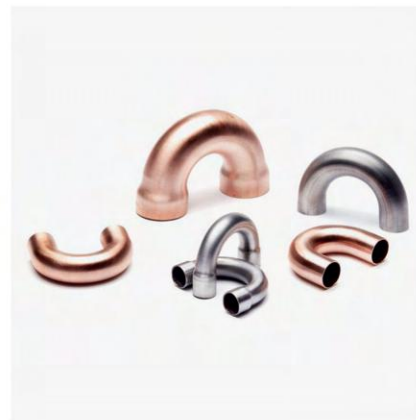
TF: Tube End Forming

DuraFin Tube can produce DuraTube® end forms to produce a connection point or end form to any of our fabricated tubing. Typical forms include swaged, flared, flanged, beaded, chamfered, domed, flattened, dimpled, and more. End forms can be made to specified standards or customer specifications.



TM: Tube Manifold

DuraFin Tube produces tube headers, also known as manifolds, for use in a variety of heat exchanger applications. Tube holes can also be T-Drilled (collared), drilled, or punched per requested requirement.



RB: Return Bend / LB: Elbow Bend

DuraTube® tubular flow fittings are used in Heat Exchanger assembly and fluid piping systems. End forms can be utilized on any of the Return Bends and Elbows.



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