



# HF finned tube

HF Finned Tube is a type of heat exchanger tube that is designed to increase the surface area of the tube and enhance the heat transfer efficiency.

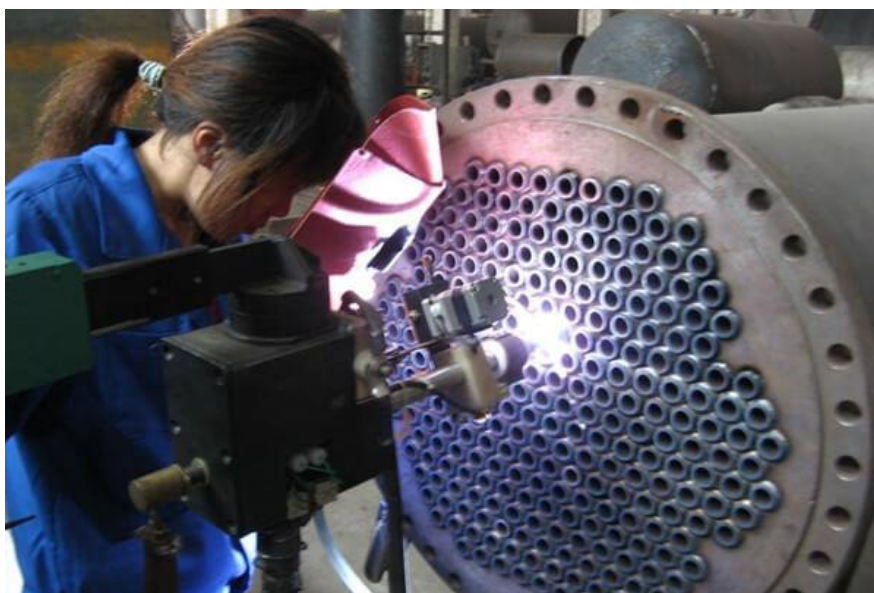
HF Finned Tube is made up of carbon steel, stainless steel, or copper alloy with fins attached to the outer surface using the high-frequency welding process. The finned tube is widely used in various industries such as power generation, chemical processing, oil and gas, and HVAC to transfer heat between fluids or gases.



The high-efficiency of HF finned tube makes it suitable for critical applications where energy conservation is an essential factor.

HF Finned Tube is also known as high frequency welded spiral finned tube, high frequency welded spiral finned tube is a tubular high-efficiency heat transfer element with spiral fins. The extended surfaces (fins) can be solid or serrated and have up to tens of times more heat transfer area than a bare tube.

HF Finned Tube is a spiral winding of steel fins, which is continuously welded on the steel pipe by high frequency resistance welding (HFERW). A high-frequency current is introduced into the workpiece, the welding contact surface is melted or semi-melted by resistance heat, and then appropriate pressure is applied to the welding contact surface to complete the welding of the finned tube. This produces a uniform, clean and continuous finned tube combined with no additional welding material for very efficient heat flow and corrosion resistance.



## The case of HF Finned Tube

High-frequency welded spiral finned tube is one of the most widely used spiral finned tubes.



### Manufacturing Process:

HF Finned Tube is a spiral winding of steel fins, which is continuously welded on the steel pipe by high frequency resistance welding (HFERW). A high-frequency current is introduced into the workpiece, the welding contact surface is melted or semi-melted by resistance heat, and then appropriate pressure is applied to the welding contact surface to complete the welding of the finned tube.

### Quality Control for HF Finned Tube

The quality of the HF Finned Tube is assured by hydrostatic or pneumatic testing, eddy current testing and tensile testing to verify the mechanical bond between the inner tube and the outer fins.



## Delivery conditions

Burr-free, dry and blow-out inside, HF Finned Tube with varnish on both ends.

## Features of HF Finned Tube

1. Due to the fast welding speed and strong self-cooling effect of the weldment, not only the heat affected zone is small, but also oxidation is not easy to occur, so the structure and performance of the weld are very good.
2. Anti-corrosion performance, wear-resistant performance, low contact thermal resistance, high stability, and anti-fouling ability.
3. Large heat exchange area.

**Note:** Mill test certificates will be issued according to EN10204.3 3.1 or 3.2

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