Meltech 7 Zone Strand Annealing Continuous Rod And Wire Furnace

Stock Code: WEB495
Manufacturer: Meltech
Model: Strand Annealing Furnace
Year of Manufacture: 2008
Serial: 51169
New or Used: Used (Second Hand)
Internal Size (WxDxH mm): 2 x Ø50 6 x Ø38
Max Temp: 1100°C
Other Info: Open to offers that meet reserve
External Dimensions (WxDxH): 10000 x 1200 x 1200

In the late 1940's continuous strand or strip annealing lines came into use in brass producing mills. The modern strand annealing tube furnace has for decades played the dominant role in annealing of wires, ropes and tubes made of high carbon steel, stainless steel and nickel alloys.

Process of an Annealing Furnace

An annealing furnace is a type of continuous furnace used to heat material at very high temperatures in such a way as to change its hardness and strength. Annealing is often associated with the production of steel and other metals. The process of annealing can help relieve internal stresses or non-uniformities in the material that may lead to early failure in the field.

The annealing process is also commonly used with other metals, glass, and even ceramics to make them less brittle and more durable and workable.

Steel is annealed to reduce the hardness, improve machinability, facilitate cold-working, or to produce a particular microstructure within the steel. This basically involves a heating and cooling cycle that softens the material so that it may be bent or cut easily.
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For metals, an annealing furnace must be capable of heating the material to a specific temperature. This produces changes in the atomic structure and causes the metal to soften. While annealing temperatures vary depending on the material and application, a typical temperature for annealing steel is around 700°C (1,292°F).

An annealing furnace is designed for very uniform heating, followed by a gradual cooling process. To prevent oxidation of the material, the heating chamber is airtight, with a slightly positive pressure. The atmosphere within the chamber typically consists of a combination of N2 or a mixture as necessary are available fed through end manifold Tube sizes: 12 to 75 mm Tube material: ST 310 Stainless steel Element systems: Wire wound Kanthal Insulation materials: Ceramic fibre, and board Tube supports: SiC profile tiles Electrical supply: 380 – 415V 3 phase + neutral Installed heating: 144kW Zoning: 7 Individual zones each controlled by separate R type thermocouples Temperature controllers: West P6100 Control P6700 Alarm SSR type: Omron Tube access: Hydraulically-activated lid opening

** Price drastically reduced for immediate sale **
Reduced from £67,500 to £40,000

View Meltech 7 Zone Strand Annealing Continuous Rod And Wire Furnace on our web site at
https://www.rileysurfaceworld.co.uk/machines/28805.htm

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.