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Technology, Tips & News for Manufacturers with In-House Heat Treat

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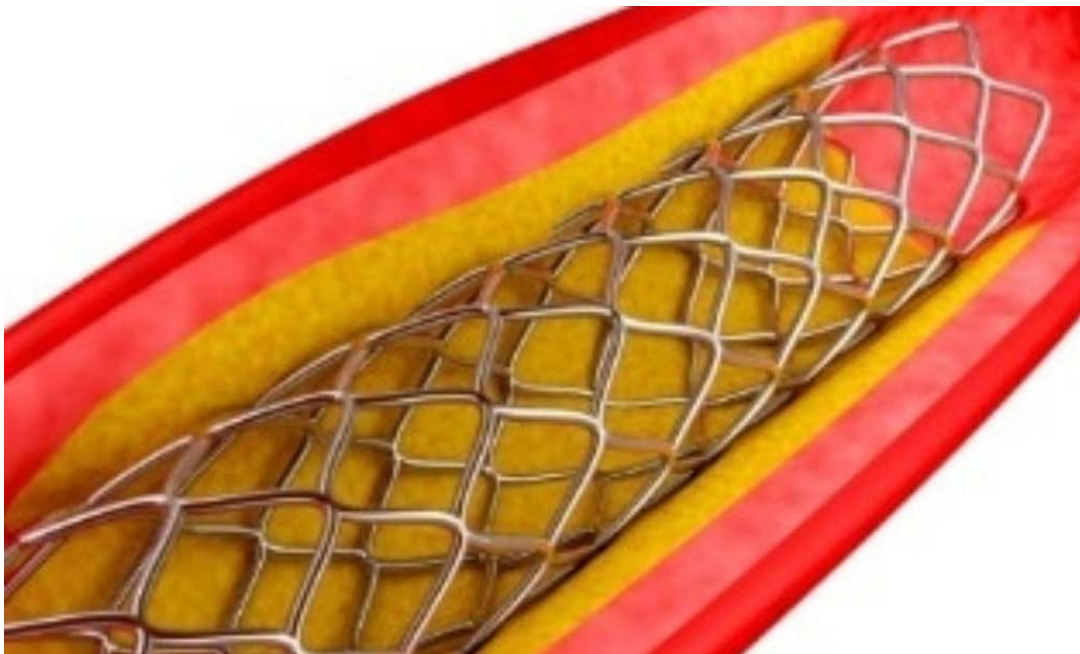
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Dry Coolers has been providing

Heat Treatment to Strengthen Stents

JUNE 18, 2018 MEDICAL HEAT TREAT, MEDICAL HEAT TREAT NEWS



Source: Buehler.com

Manufactured from titanium, 316L steel, cobalt chromium alloys, platinum chromium, titanium (Ti6Al4VELI) and nitinol alloys, medical stents are a critical component in treatments that require mesh scaffolding to open blocked vessels or ducts. In order to validate the thickness of the walls or strengthen the stent where modifications have taken place, manufacturers utilize laser machining, which can result in microstructural changes to the alloy. Heat treatment enters as a vital process to relieve internal stresses and improve fatigue properties.

“Nitinol stents which are generally self-expanding utilize the elastic properties of the alloy and require a shape-setting process to fix the final shape of the stent,” write Dr. E. Mogire and D. Crozet in a paper recently published by Buehler.

Read more: [“Metallographic Preparation of Medical Implants – Stents, Orthopaedics...”](#)

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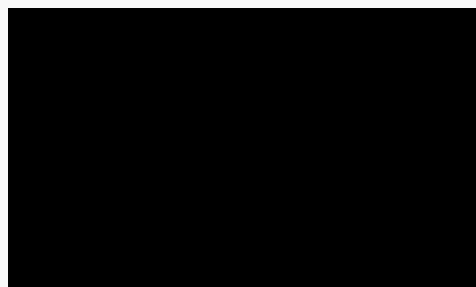
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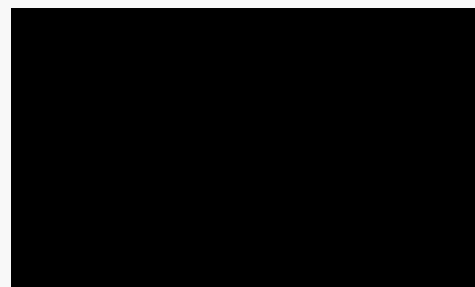


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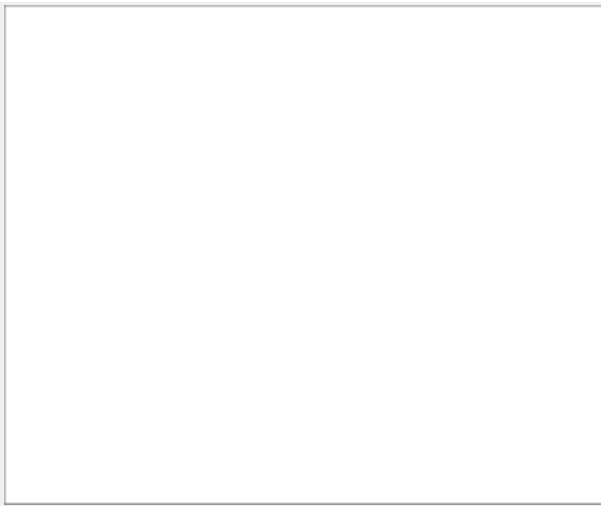
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A horizontal banner with an orange background. On the left side, there is a small icon of a globe with a yellow and blue gradient. To the right of the icon, the text 'THE 19th CHINA(GUANGZHOU) INT'L HEAT TREATMENT&INDUSTRIAL FURNACE EXHIBITION' is written in a bold, blue, sans-serif font. Below this, the text 'Show time: 6-8 June, 2018' and 'Venue: C Area, China Import and Export Fair Pazhou Complex' is written in a smaller, black, sans-serif font.

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