

# Radyne spring wire line

**I**NDUCTOTHERM Heating & Welding Limited has won an Indian order for one of its industry-leading Radyne spring wire lines.

Working with a global wire manufacturer towards a start date in late 2019, the induction-tempered, water-cooled line will process 7mm-14mm spring wire, predominantly for hardened and tempered automotive springs, at around two tonnes an hour.

The line for India – one of 18 currently in use around the world – will offer efficient induction heating and clean water-quenching systems and new induction hardening and tempering lines that will

offer greater specification consistency than the traditional oil-tempered process. Induction offers non-contact instant heating, with no fluidised bed and low maintenance. The instant nature of the heat means no furnace to warm up and cool down, while quenching with water is also more efficient, with no special oils nor fire hazard, and no need to dispose of waste liquid.

Other benefits of the new line include only minor decarburisation – due to the extremely short heating time, minimal grain-growth, the ability to heat-treat exotic alloy steels needing higher temperatures, and in some cases higher tensile

strength, while maintaining full ductility. The heat treatment stage involves heating the wire to around 700°C, then up to the desired hardening temperature before water-quenching at a controlled rate to obtain the correct austenitic structure. Once hardened, the material is tempered back to its final martensitic specification by heating to the correct temperature. The wire is again water-cooled before take-up. The wire finally passes through a product protection stage that applies a protective coating, while a hydraulic shear removes the weld.

[www.inductothermhwc.com](http://www.inductothermhwc.com)



## New wire, cable, tube and pipe conference

**T**HE global supply chain for steel, copper and aluminium products is set to gather in Johannesburg for the inaugural Africa Wire, Cable & Tube Conference in November. Wire, cable, tube and pipe products are crucial to many African industries, from mining and power supply to construction.



This first conference, organised by IWMA member CRU, will bring together local stakeholders and international experts to discuss production and trade in these products throughout the continent.

The inaugural conference will be held on 11-13 November 2019 at the Emperor's Palace, Johannesburg, with Messe Düsseldorf as lead sponsors, and hopes to bring African companies and institutions and international suppliers together. Nicola Coslett, CEO of CRU Events explained: "CRU is a leading authority in wire and cable markets. This important inaugural event is being launched in response to the interest in these rapidly-changing markets."

Frank Aletter, Deputy CEO of The Southern Africa-German Chamber of Commerce and Industry added: "We are excited to be co-organising this new conference, which will benefit local enterprise as well as establishing a dialogue with international investors. We look forward to helping to build long-lasting rela-

tionships between South African SMEs and their new partners."

The conference will explore the main impacts on global steel, copper and aluminium wire, cable and tube markets and what this means for Africa. Delegates will also be brought up to date on consumption trends within Africa for these products.

Attendees will also gain insights into the political and investment climate from local experts and international organisations, while investors will also have the chance to assess greenfield and brownfield projects.

In other sessions, industry experts will discuss the latest global technological advances in wire, cable, tube and pipe manufacturing, and how this can be applied to African operations.

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