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18 Problem-solving alloy for connecting elements
In addition to ultra-fine wires, cables and stranded wires made of “ISA-CON 414”, Isabellenhütte produces preliminary materials for fasteners made of “ISA-CON 450”, another version of the copper-based alloy. This reduces electrical resistance and heat development. In addition, undesired heat can be dissipated better.

20 Speedy production buffer for 3,000 tons of steel wire coils
Vollert has erected for Saarstahl Neunkirchen a fully automatic high-bay warehouse for up to 665 steel wire coils. The time is 190s per double cycle. The coils weighing up to 4.5 tons are transferred directly from the stacker crane to the lift truck and on to the truck loading.

22 One machine, many cage geometries
German MBK’s well-proven “VSM-V” type cage welding machines for square cage reinforcements ensure stable production processes. Now, the new type “VSM-057-S” realises different geometries. That is made possible by index plates, which are necessary for the production of round, oval, triangular, square or rectangular cages.

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Material Saving is no Magic
With Wall Thickness and Diameter under Control
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**Quality management**

Testing system for concrete reinforcing steel
Using measuring technique to its full potential
Third-party testing and certification to improve cable products

**Coatings**

Infrastructure boom drives growth opportunities

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25 **Manufacturing bushes more precise and productively**

The “GRM 80B” opens prospects in the manufacture of bushes with inner diameters up to 40mm and 60mm length in all – even very small – batch sizes. Offeror Otto Bihler pledges a high performance for the machine, short changeover times, a high standardisation and uncompromising manufacturing quality.

28 **Testing system for concrete reinforcing steel**

Tensile stress in concrete is poorly tolerated. Therefore the constructions are reinforced with bars, mats or rings. As a safety-relevant structural material, reinforcing steel is subject to official control. German Zwick Roell offers testing machines up to 5,000kN for tensile tests.

30 **Third-party certification to improve cable products**

Independent certification is becoming increasingly important as buyers seek clear differences between the offerors. Apart from technical specifications, factors that can influence customer decision-making can include compliance, and most importantly, commercial advantages.

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