

WIRE

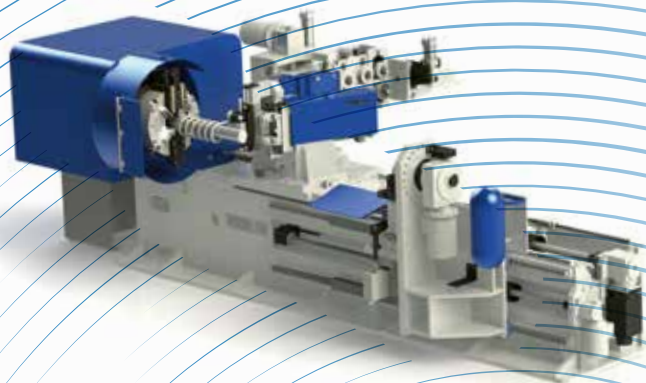
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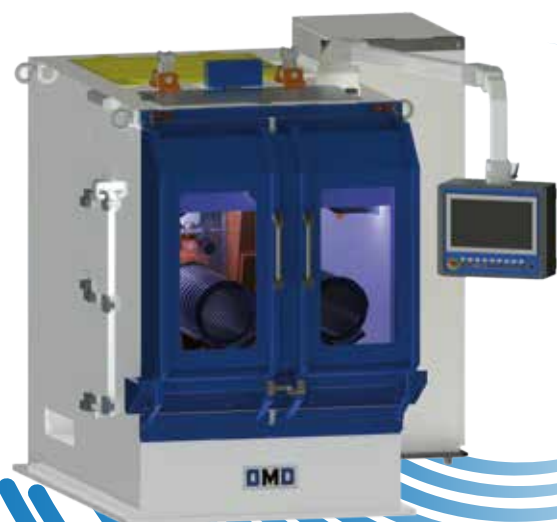
April

English edition of the
magazine for the spring,
wire and cable industry
www.wire-magazine.de



WH20

COILING LATHE FOR COLD COILING



H80

SPRING END GRINDING MACHINES WITH WATER COOLING



industry4.0



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Interwire 2025

Shaping the future of wire making

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Wire bending

Cutting-edge wire forming solutions

Page 23

Cable manufacturing

AI drives demand for data cables

Page 40



500'000

Scan rate
(Hz)



**up to
3000**

Line speed (m/min)



3

Measurement
axes



0.25

Min. fault
length (mm)



0.01

Min. fault
height (mm)



KW Fault Detector

**Optical surface fault device
for lump and neckdown
detection in wires & cables**

Benefits:

- ✓ Highest reliability fault detection at exceptionally high line speeds (up to 3000 m/min) thanks to market-leading scan rate of 500'000 Hz.
- ✓ Measuring solution that is totally immune to ambient and scattered light, providing maximum accuracy and stability.
- ✓ Dust resistant thanks to a built-in air curtain, making it suitable for use in harsh environments.
- ✓ Utilizes 3-axis measuring optics which can be easily configured to use just one axis if required.

Uniting people and technology



Introduced in 1981, "Interwire" is the largest and longest-running wire and cable marketplace in the Americas. Hosted biennially, the fair is an international trade event that includes exhibiting companies, speakers, and visitors from around the world. The "Interwire 2025" will be staged in Hall A of the "Georgia World Congress Center" (GWCC) in Atlanta, GA/USA, and open to visitors May 13-15. Programs feature 82 speakers, 43 conference presentations, 350 exhibiting companies.

The Wire Association International Inc. (WAI) announces a special conference program for "Interwire" and its "4th Global Continuous Casting Forum", May 12-15, at the GWCC. The collective programs offer participants a vast selection of topics within the 2025 "Shaping the future of wire making/Uniting people and technology" theme. Registrants for either program have access to the "Interwire" exhibits, scheduled presentations in the "WAI theater", and production solutions demonstrations. Programs require separate registration.

WAI, founded in 1930, is a not-for-profit association with 1,700 individual members in 38 countries. The association serves the educational needs of the wire and cable manufacturing industry through a variety of products and services. WAI manages the "Interwire Conference & Trade Exhibition" and "Wire Expo" and publishes the Wire Journal International and the Wire Journal International Reference Guide.

Leading off the conference, the full-day "Fundamentals of Wire Manufacturing Course", essential primer on wire manufacturing processes will be held Monday, May 12. The course features a general track in the morning for all participants splitting into simultaneous ferrous and nonferrous tracks in the afternoon. WAI will also debut the "Advanced Extrusion Workshop" on May 14, that will build on the extrusion principles introduced in the "Fundamentals of Wire Manufacturing Course". Presented by Rick Chamberlain and a co-instructor, the workshop is designed to take participants to the next level of understanding and application. The workshop, which is limited to 50 participants, will include breakout sessions to ensure a comprehensive learning experience. The workshop will also include visits to exhibitors to witness extrusion machinery in action.

The "Global Continuous Casting Forum" (GCCF) is WAI's fourth forum for copper and aluminum continuous casting, will run May 12-15, in conjunction with "Interwire". The "GCCF" registration will include an Opening Reception on Monday, lunch and coffee breaks, a group dinner on Wednesday, and time to explore the "Interwire" exhibit floor.

The 72nd president of the association for a one-year term Eric P. Bieberich said, "I am eager to champion the association's vision to be the most valued, critical resource for the global wire and cable industry. The Phase One launch of the 'Education Center' is especially exciting, showcasing the dedication and hard work of the association's volunteers and staff in creating a cutting-edge training resource for the next generation."

J. Dambock

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We draw and refine wire

High performance since 1738
Wire diameters 0.02 to 2.00 inches



CLAAS/KLINCKE Wireworks are two independent companies that use state-of-the-art drawing machines and the latest annealing and surface technologies to draw and finish wires with diameters from 0.02 to 2.00 inches to a high level of quality.

We look forward to your visit.

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INTERWIRE 2025, a meeting place for the North American wire market. May 13-15 at the Georgia World Congress Center, Atlanta, Georgia, USA

CLAAS/KLINCKE



Wireworks



8 Shaping the future of wire making

The Wire Association International, Inc. (WAI) will host its "Interwire Conference and Trade Exposition" May 13-15, 2025, at the Georgia World Congress Center, Atlanta, Georgia, USA.

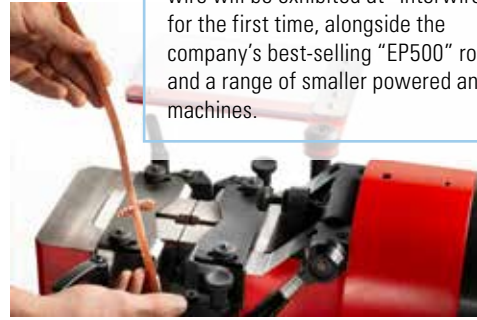
11 AIM will present the new "AFCe-3Dx" line

The advanced and compact 3D wire-bending machine is designed to set new standards in wire-forming technology at an exceptional price point and an updated "AFES-3Dxt" line with five servo-axis, turret tool-changer machine with an ultra-fast servo cutter.



19 Cold welder for trapezoidal wire

PWM's "TR45" cold welder for trapezoidal wire will be exhibited at "Interwire" for the first time, alongside the company's best-selling "EP500" rod welder and a range of smaller powered and manual machines.



18 Zinc's unique properties require a distinct approach

Zinc's physical and chemical properties differ significantly from other non-ferrous metals such as copper and aluminum. A lubricant for zinc processing must have excellent stability and effectiveness under challenging conditions to ensure long emulsion life and reduced downtime.



24 Parts with different geometries on one machine

Machines for the production of wave springs and rings – the "SNA" series from Wafios offers high output rates with the highest quality and thus sets standards for the highest demands.



Interwire 2025

Shaping the future of wire making 8

Handling

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Automated and reliable coiling solutions

Windak's "FC" series of fully automatic coiling machines sets a new standard in cable packaging, offering unmatched automation, precision, and reliability. The "FC" series provides an intelligent, automated, and cost-effective approach to cable coiling.



42

"Show me what you can do"

How performance and innovation won the trust of a leading US company. Companies around the world are always looking for better ways of doing things: cutting costs, improving quality, and serving customers better. Encore Wire is a company that strikes the perfect balance.

40

AI boom drives demand for high-quality data cables

With the huge investments in AI data centers such as Stargate in the USA and Deepseek in China and elsewhere, the demand for high-quality data cables is rapidly growing. The quality requirements for these cables set new standards for the extrusion process.



46

Cleaning of fasteners – economical and sustainable

Screws, nuts, washers, springs, clamps – fasteners are essential for safe and reliable assembly. In the course of increasing demands on technical cleanliness in industrial production, fasteners also have to meet increasingly higher specifications.



36

Tunisie Cables enhances insulation extrusion

Tunisie Cables has significantly enhanced their production processes by integrating advanced technologies from Zumbach. By utilizing Zumbach's state-of-the-art solutions, Tunisie Cables ensures superior insulation and sheathing quality control.



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