

[SAVE
THE DATE]

INNOVATION DAYS 2025

May 07 – 09, 2025 in Reutlingen

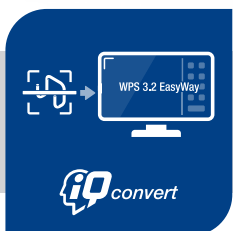
WAFIOS



CNC COILING AND BENDING MACHINE BM 36 HS

BOOST YOUR PRODUCTION WITH INTELLIGENT SOFTWARE

IMPORT OF
GEOMETRY DATA



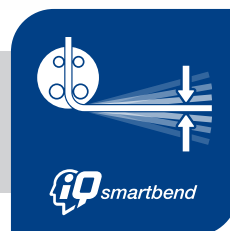
Import of the CAD
geometry or
bending data

REAL-TIME
SIMULATION



Real-time simulation
for cycle time calculation and
collision monitoring

ENHANCED
PERFORMANCE



Automatic vibration reduction
for enhanced performance
and quality

MOTOR TORQUE
MONITORING



Automatic machine stop
in case of workpiece
or tool breakage

Wire processing

Launch of the "AFCe-3Dx"

page 16

Spring manufacturing

The future of feeding systems

page 34

Cable manufacturing

A leap towards quality

page 40



CELLMASTER®

Diameter, Capacitance Measurement and Control Solution



Benefits:

- ✓ Centralisation of the insulated conductor is accurately displayed for process optimization ensuring best electrical performance is achieved.
- ✓ Capacitance level is controlled to best stability, optimizing signal transmission performance.
- ✓ SRL indication directly on screen allowing optimal product selection for performance needs.
- ✓ Startup times and scrap levels reduced to minimum capabilities, thanks to early indication of process issues and changes.
- ✓ Increased machine usage through early indication of failing parts thanks to live Fourier Transform displays, allowing clear preventative maintenance to take place, avoiding major breakdowns.

What's coming up?



This March-issue of WIRE is marked by a multitude of new product introductions. AIM Inc. from the USA is introducing its new 'AFCE-3Dx' line, an advanced and compact 3D wire-bending machine. Wire bending machines from Wafios such as the 'BM 43 HS' offer flexible bending solutions. Modular tool solutions, an assisted setup procedure and a new insulation stripping device are just a few of the many new developments. The 'BM 12' bolt-making machine is the most powerful of all machines ever built by Amba and, due to the high upsetting forces involved, the first to use inductive heating for the forming of the bolt head. Carlo Salvi, producer of high-speed cold forming machines, recently introduced the 'CS 663 LF', a significant upgrade to its 'CS 663' model.

An automated feeding system for spring grinders from Simco is equipped with sensors and controls, effectively reducing spring tangling and improving loading accuracy. Pyromaitre's new 'P106-Basic' oven is designed for small springs.

Data transmission rates reaching several terabytes per second, an extremely low latency and high temperature resistance are the key benefits of 'Twinax' cables. For cable production, Rosendahl Nextrom has just the right extrusions available.

Kurre Systems is enhancing its portal payoff with a new 'Remaining length' operation mode. This innovation significantly improves both safety and tool-free machine setup. Nexans faced significant challenges with irregularities in its network cable extrusion process at its state-of-the-art facility in Tuzla/Türkiye, leading to increased production losses and material waste. Zumbach Electronic helped with appropriate solutions.

Videx from Israel will be exhibiting at 'Fastener Fair Global' (March 25-27, in Stuttgart/Germany). The company now offers operator-free lines to produce hi-tensile U-bolts from coils and bars. International tensions, including in particular threats of tariffs by the new US administration, are inhibiting further recovery in global trade.

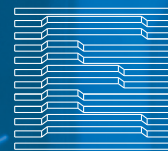
In February, exhibitors were still reporting positively from 'wire Mexico' in Monterrey. The second edition of 'wire Mexico' and premiere of 'Tube Mexico' was a success. A total of 168 exhibitors from 20 countries showcased their innovations in 1,815sqm of exhibition space. Exhibitor participation at 'wire Mexico' marked an increase of 57% compared to 2024. Together, the three trade fairs 'wire Mexico', 'Tube Mexico' and 'Expo Manufactura' attracted 13,652 visitors from Mexico, other Latin American countries, the USA and Canada. The next editions of the fairs will again take place at Cintermex in Monterrey in 2027, concurrent with 'Expo Manufactura'.

More trade fairs coming up in the next few months include 'wire Eurasia' in Istanbul/Türkiye (April 9-12); 'Metalflow Alliance', Riyadh/Saudi Arabia (May 5-7), and 'Interwire', Atlanta, GA/USA (May 13-15). In this issue, you will find the first exhibitor reports on 'wire Eurasia'. A 'trade fair Special WIRE newsletter' at the end of March will be devoted entirely to this event. Our April print edition will focus on 'Interwire' but will also take a look at the 'Metalflow Alliance', and in particular its 'wire' element. Online, the editorial team will be keeping you updated on all wire fairs.

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16 Launch of the new "AFCE-3Dx" line

AIM, Inc. is proud to unveil the new AFCE-3Dx line, an advanced and compact 3D wire-bending machine designed to set new standards in wire-forming technology at an exceptional price point.

18 Simple setup for rapid wire bending processes

Wafios' wire bending machines offer flexible bending solutions for round or profiled wire. Modular tool solutions, an assisted setup procedure and a new insulation stripping device are just a few of the many new developments.



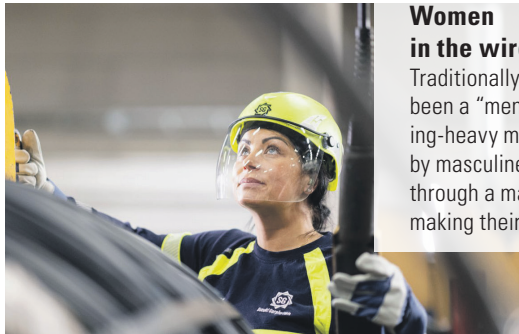
32 Efficiency meets flexibility

Grob is a machine builder with core expertise in the automotive industry. In this success story, you can read how Grob, together with Keba, has succeeded in creating an HMI visualization for the safe operation of its machines and systems during maintenance, service and commissioning work.



24 Women in the wire industry

Traditionally, the wire drawing industry has been a "men's world," rooted in engineering-heavy manufacturing and a culture defined by masculine dominance. Yet, like a fine wire through a maze of prejudices, women are making their way into this industry.



26 Cold and hot forming of bolts and screws

With the "BM 12" bolt-making machine, Amba increases the range of products covered by its "All-in-One" series to include wire gages of up to 18mm diameter. Due to the high upsetting forces involved, the first to use inductive heating for the forming of the bolt head.



Wire processing

Launch of the new "AFCE-3Dx" line

Quality management

Detecting welds in the wire industry

Wire bending

Simple setup for rapid wire bending processes

Surface treatment

Patented "micro-gun" wire cleaning

Trade fair / wire Eurasia 2025

Highest bunching quality
Latest developments in wire rolling
Discover what Wafios has to offer in Istanbul
Turnkey partner for complete wire/cable production
Lämneå Bruk debuts at "wire Eurasia"
Looking for rotating machines and services?

Lack of skilled labour

Women in the wire industry

Fasteners

Cold and hot forming of bolts and screws

Materials

Lead-free machinable steel

Fasteners

Linear wire feeding

Rolling

Proactively reducing downtime risks

Straightening

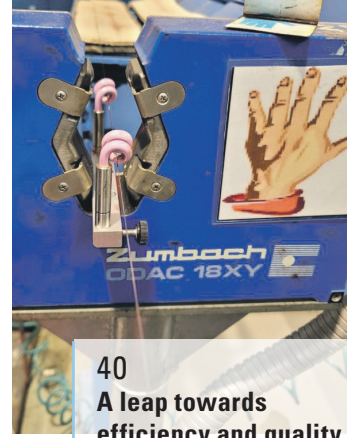
Rotor straightening system with hyperbolic rollers

Automation

Efficiency meets flexibility



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The future of feeding systems in spring grinding
 Simco's automated feeding system for spring grinders is equipped with sensors and controls, effectively reducing spring tangling and improving loading accuracy.

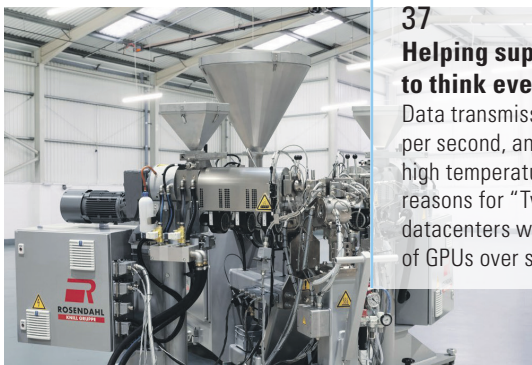


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A leap towards efficiency and quality
 Nexans, a global leader in cable manufacturing, faced significant challenges with irregularities in their network cable extrusion process at their state-of-the-art facility in Tuzla, Turkey, leading to increased production losses and material waste.

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Portal payoff with remaining length operation mode
 Kurre Systems, a German company renowned for its custom solutions in mechanical engineering for the cable and wire industry, is enhancing its portal payoff with a new "remaining length" operation mode. This innovation significantly improves both safety and tool-free machine setup.



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Autonomous truck U-bolt line
 Videx now offers operator-free lines for the production of hi-tensile U-Bolts from coils and bars. The lines are effective for both, short runs and long runs. They are controlled by sensors, to assure fluent and smooth operation.



37
Helping supercomputers to think even faster
 Data transmission rates reaching terabytes per second, an extremely low latency and high temperature-resistance are the key reasons for "Twinax" cables used in AI datacenters where they connect thousands of GPUs over short distances.

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