

WIRE

DRAHT

a brand of umformtechnik.net

3/2025

August

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

NEW DEDICATED MACHINE
FOR THE PRODUCTION OF MICROSPRINGS

WIRE DIAMETER FROM 0.05 MM

Simplex Rapid

A TRADITION OF QUALITY

SIMPLEX RAPID S.R.L.

MILAN - ITALY



www.simplexrapid.it

Surface treatment

Wire grinding – new possibilities

page 16

Springs manufacturing

Semi-automatic spring presetting

page 32

Wire ropes

Rotation-resistant hoist ropes

page 47



FUL 36+

CNC SPRING COILING MACHINE WITH ASSISTED FUNCTIONS

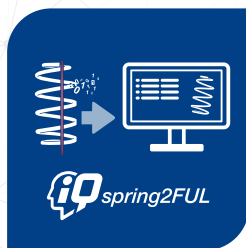
Machines with assisted or automated functions help the user and make everyday processes faster. The compression spring coiler FUL 36+ features individual, assisted and automated functions that the operator can use without operator guidance.

WAFIOS ASSISTANT



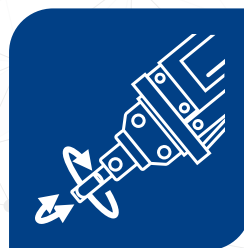
The WAFIOS Assistant guides the operator through the setup process of new parts with hints, pictures and videos. This facilitates the setup process considerably.

SMART SPRING FORMING



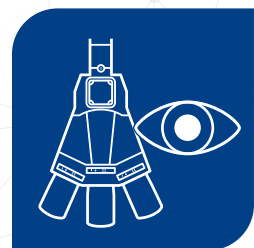
Copying a compression spring by means of an external measuring device.

PTPDOU COILING FINGER



PTPduo coiling finger with two independent CNC axes to optimize initial tension, reduce friction, and enhance quality.

MONITORED SORTING DEVICE



Motor-driven and electrically monitored 3-channel sorting device.

Sales markets urgently needed



Despite or perhaps of the ongoing trade conflicts, European companies are seeking to tap into new markets. Companies are looking to offset weak domestic markets with international business. The industry took advantage of “wire Eurasia” in Istanbul, “Metalflow Alliance” in Riyadh and “Interwire” in Atlanta to showcase its products.

In the second half of the year, the “wire Middle East Africa” exhibition in Cairo and “wire Southeast Asia” in Bangkok will offer further opportunities to do so.

In addition, German wire and cable machine manufacturers will be presenting once again themselves in America this year. With its own pavilion under the motto “Cable and Wire West Coast”, the Association of Wire and Cable Machine Manufacturers (VDKM) will be exhibiting at the “Manufacturing Technology Series West” in Anaheim. Almost 20 companies will be presenting themselves at the joint stand.

Towards the end of the year, “Wire Brasil” in Sao Paulo and “Cable+Wire India” in New Delhi are still on the calendar.

According to the Interwire organiser Wire Association International (WAI), 3,386 visitors from 46 countries came to Georgia in May. 350 companies exhibited at the sold-out exhibition.

Eric Bieberich, WAI President for 2025, said: “Interwire 2025 lived up to this year’s theme – ‘shaping the future of wire manufacturing, connecting people and technology’ – with courses and planning sessions focused on the future of the wire and cable industry.”

A glance at the topics covered at recent conferences also reveals that the industry wants and needs to reposition itself for the future. Topics such as artificial intelligence, demographic change, climate change, CO₂ neutrality, entry into the defence sector and many more are being discussed.

In this issue of WIRE, companies once again present their new products or invite readers to visit them at upcoming trade fairs.

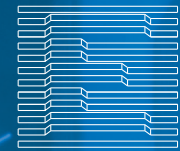
They hope that positive discussions at the trade fairs will not be thwarted by customs conflicts or geopolitical crises.

Between trade fairs, WIRE keeps you up to date, whether in print, streamed, posted or emailed. Keep an eye on markets and competition with us.


Jörg Dambock, editor-in-chief
joerg.dambock@meisenbach.de

Get in contact: wire@meisenbach.de
www.wire-magazine.de; X: WIRE_DRAHT
LinkedIn: wire-draht-magazine
WIRE is a brand of umformtechnik.net

EUROBEND



Innovation&History



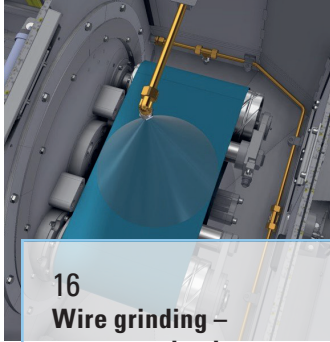
- Mesh welding lines for standard mesh-Non-Stop System
- Flexible mesh welding lines for special and engineering mesh
- Mesh welding lines for 3D Fence panels
- Mesh welding machines for spacers and bar supports
- Rotor straightening machines for wire up to 50mm
- Multi-rotor straightening machines
- 2D/3D Wire bending machines
- Multi-line 3D wire bending machines

VISIT US
IN BOOTH
H08



EUROBEND GmbH
Alexander Str. 1
D-90547 Nürnberg-Stein
GERMANY
Tel +49 911 949 89 80
sales@eurobend.com
www.eurobend.com





16

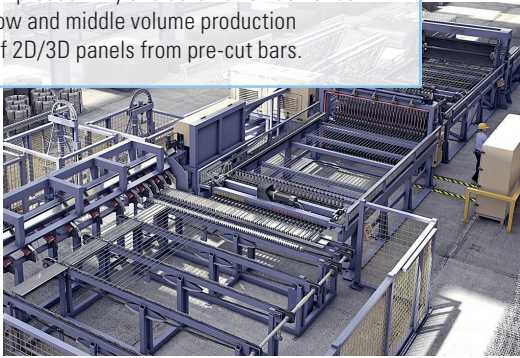
Wire grinding – proven technology, new possibilities

Wire grinding is an integral part of the wire industry's process chain. Whether for removing scale or oxide layers, reducing surface defects or preparing for subsequent electroplating or forming processes, the grinding process is a critical component.

22

Fence panel production

For the 2D/3D fence panel production Eurobend offers machines covering all productivity and automation demands: low and middle volume production of 2D/3D panels from pre-cut bars.



30

Complete line for spring wire production

Lämneå Bruk delivers fully integrated solutions for efficient spring wire production. This article outlines how their advanced handling, cleaning, drawing, lubrication, and coiling technologies optimize quality, reduce waste, and ensure consistent mechanical performance.



28

Exceptional customer service

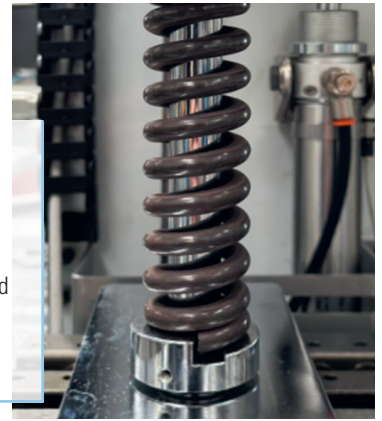
Since 1957, Swiss-based manufacturer of industrial, non-contact measuring and control solutions, Zumbach Electronic has worked tirelessly at providing exceptional customer service with their industry leading products and solutions.



32

Semi-automatic hydraulic unground spring presetting

In the manufacturing of high-performance springs, presetting is a critical step. This process involves compressing the spring beyond its operating limits to induce a controlled amount of plastic deformation, thereby minimizing further relaxation during use.



Surface treatment

Wire grinding – proven technology, new possibilities
Stains on copper wire

Wire bending

Significant control and simulation enhancements

Welding

Efficient flash butt welding
Fence panel production

Quality management

Expert insights on wire testing
Diameter measurement at ultra-high speed
Exceptional customer service

Springs material

Complete line for spring wire production

Springs manufacturing

Semi-automatic hydraulic unground spring presetting

wire Southeast Asia

16 Member pavilion, technical conference,
29 and networking evening 34

Stranding

19 State-of-the-art rotating machinery 35

Extrusion

20 Focused on productivity, precision, and partnership 36

22

Stranding

24 Stranders and cabling 37

26

Extrusion

28 Shaping tomorrow together 37

Wire drawing

30 Unleash the power of wire production 38

Reels

32 Nailed wooden reels 38



36
Focused on productivity, precision, and partnership
 At the upcoming “wire Southeast Asia” show in Bangkok, Rosendahl Nextrom will showcase its commitment to solutions that maximize productivity while ensuring top product quality.

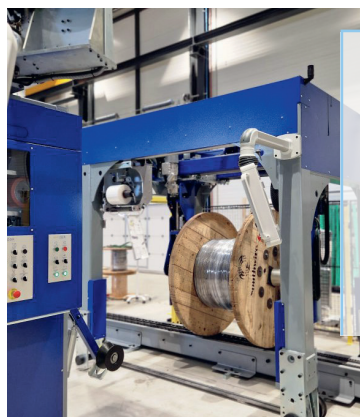


46
Heavy drums – efficiently rewound
 Kurre Systems a merger of Kurre Special Machine Engineering and Siebe Engineering, has been delivering innovative, tailor-made solutions to the wire and cable industry for decades.

45
Quality control of energy cable lines
 Wuxi Huacheng Cable Co. Ltd., based in Jiangyin City, is a specialist in manufacturing special high temperature resistant cables. The company relies on Sikora’s “X-Ray 6000 Pro” to ensure optimal processes and the highest product quality.



48
Built to last, modular, and upgradable
 The precision in constructing the machine head of TLM thread rollers combined with the rigidity of the reaction block under load during the threading process, ensures both accuracy and repeatability in achieving the final product.



44
Fully automated reel handling
 Designed specifically to address common challenges in cable manufacturing, the “AL60” significantly improves production efficiency, operator safety, and reduces downtime associated with manual reel handling.



Lubricants

Innovative soluble solutions 39

Simulation

Strategic partner for digital transformation 40

wire Middle East Africa

Windak highlights latest innovations 41

Cutting-edge machinery and tailored service solutions 41

Marking

Efficient, flexible printing 42

Cable materials

Tracking effect protection masterbatch 43

Handling

Fully automated reel handling 44

Heavy drums – efficiently rewound 46

Cable manufacturing

Quality control of energy cable lines 45

Wire ropes

New generation of rotation-resistant hoist ropes 47

Thread rolling

Built to last, modular, and upgradable 48

Cold forming

Flexible automation: optimising production efficiency 49

Columns

Editorial 3

Industry news | Business 6

Industry news | Associations 7

Industry news | Trade fairs 8

Products | wire Southeast Asia 2025 34

Products | wire Middle East Africa 2025 40

Preview | Imprint 50

www.wire-magazine.de