

WIREF DRAHT

a brand of umformtechnik.net

4 / 2023

October

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



CNC SPRING COILING MACHINE



MULTIFORMER

SPRING END GRINDING MACHINE

industry4.0 SMART FACTORY



OMD **Officina Meccanica Domaso SPA**

22013 Domaso (Co) | Italia | Via Case Sparse, 205

Tel. +39 0344 97496

www.omdspa.it | info@o-m-d.it

Hairpins

Paving the way for 800V and more

page 18

Cables

Stranding of larger power cables

page 20

Fine wires

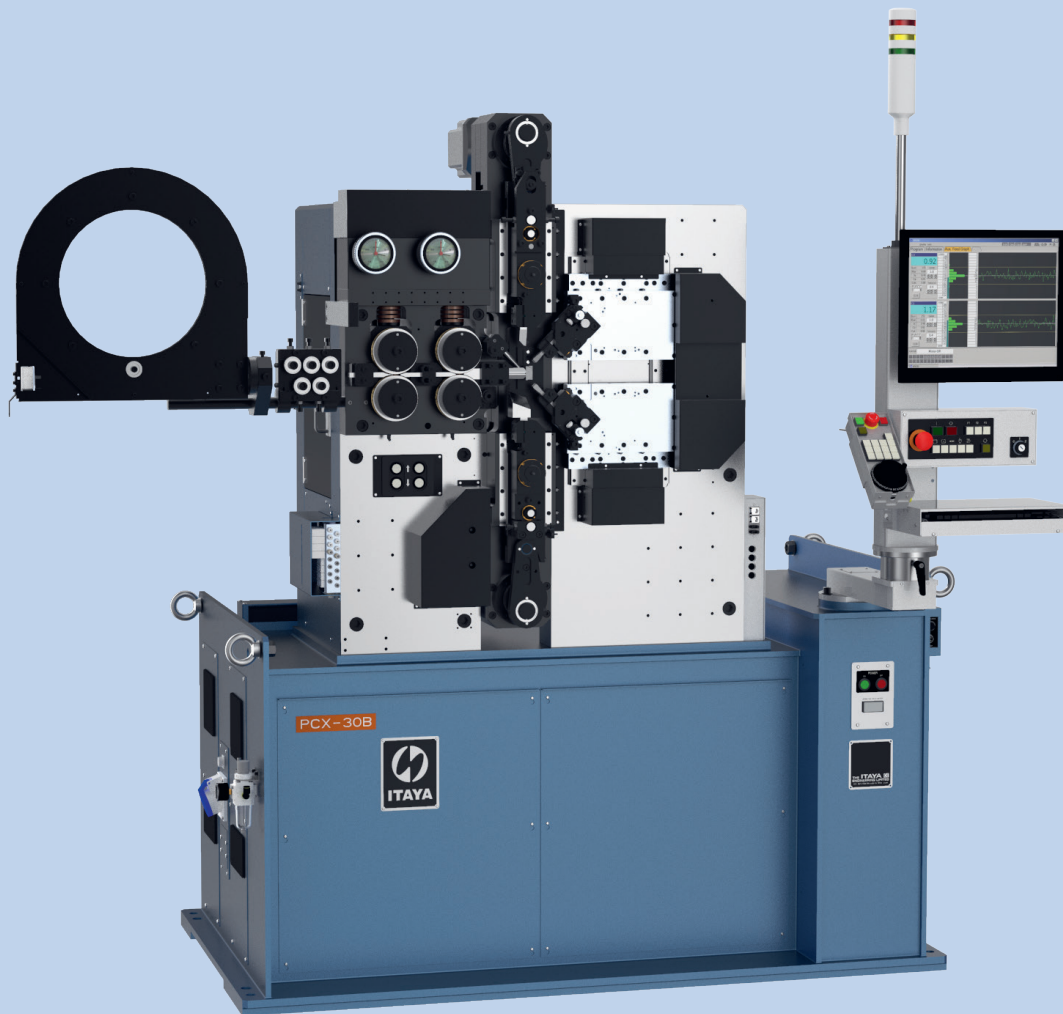
High-precision winding

page 32

ITAYA PCX-30B

Compression Spring Coiler

SYSTEM 25



Wire range 1.00 – 3.00mm
Introduced at the MF Tokyo Show 2023



ITAYA EUROPE LIMITED

Turnpike Gate House
Alcester Heath · B49 5JG · England
TEL: +44 (0)1789 400828
deanw@itaya.co.uk · www.itaya.co.jp

Autumn crocus



One of the first plants to flower in the autumn is the autumn crocus. It is beautiful to look at, but beware – the plant is poisonous. The spring, wire and cable industry is likewise viewing the autumn with caution. Electricity prices, the risk of recession and a shortage of skilled labour are making it harder to plan for the forthcoming financial year. A fixed point such as ‘wire 2024’ in Düsseldorf can provide some orientation.

This edition of WIRE is densely packed. We have tried to publish the large number of contributions sent to us in this fourth print edition of the year. Thereafter,

until the year-end, we will be keeping you up to date online – because the next edition of WIRE, 1/2024, will be our pre-fair issue for ‘wire 2024’. The world’s leading trade fair starts in just six months. Companies are already getting into their starting blocks for this highlight event.

In this issue the company Redies reports on drawing copper plated welding wire. Read about rope wires from the cradle of German wire drawing. Künne from Hemer in the Sauerland region of Germany has been producing for five generations. With the double pressure ‘DD0 104’ welding machine from Ideal, the heat-affected material made of iron or non-ferrous metal is almost completely pressed out of the welding zone. The product range from Eurobend includes sustainable solutions for the production of almost all types of wire welded mesh. A technical breakthrough in the feed control is now allowing Videx to offer unattended, operator-free machines and to expand its range of machinery.

Rosendahl is introducing the first extrusion line for hairpin wires. The compact ‘RA-I extrusion line’ is equipped with Rosendahl’s high-temperature extruder technology and a specially developed crosshead. ‘Fireguard’ PVC compounds from Teknor Apex are alternatives to fluoropolymers. Delta Tecnic optimises the colouring of special TPU cables. Woywod reports on the monitoring of the material flow of different granules at the outlet of the dosing unit. The ‘D series’ from Niehoff of double twist bunching and stranding machines is now consists of eight different sized models designed for conductor cross-sections from 0.013mm² to 500mm². Spanish manufacturer Flymca has been restructuring its internal technical departments and improve its customer service. Spirka and Wardwell have an impressive program of taping units, rewinding machines and payoffs for increasing cable shielding requirements. Supertek sets new standards in winding technology for the production and processing of fine wire and optical fibres. Windak’s ‘AR series’ packing systems meets the global demand for solar cables. Increasing demands have led Kurre to expand its family of flange driven winders.

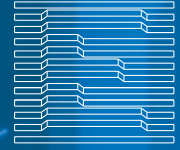
Next year from 15 to 19 April ‘wire 2024’ will take place in Düsseldorf, Germany. Your magazine WIRE has its own booth C 03 in hall 9.

I wish you an interesting read,

Jörg Dambock, editor-in-chief

Get in contact: wire@meisenbach.de, www.wire-magazine.de
 App: WIRE DRAHT UMFORM, X: twitter.com/WIRE_DRAHT
 LinkedIn: [linkedin.com/showcase/wire-draht-magazine](https://www.linkedin.com/showcase/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



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

Research

- Expertise for a completely emission-free steel mill 10
- Simulation-based microstructure prediction 12

Welding

- Pioneering in automation solutions for mesh production 14
- Double pressure welding machines 17

Fasteners

- Dual-spindle thread and form rollers 15

Drawing dies

- Drawing copper plated welding wire 16

Extrusion

- Paving the way for 800V and more 18

Stranding

- Efficient stranding of larger power cables 20
- Submarine cables for HV and FO 31

Bending

- Wafios welcomes e-mobility experts 22

Cable materials

- Colouring of TPU cables with a single masterbatch 24
- Alternatives to fluoropolymers 26

Winding

- Kurre reinvent their flange-driven winder 25
- Rewinding machines and payoffs for wire 29
- Solar cable packaging 30

Cable manufacture

- Monitoring of material flow 27
- Braid and tape shielding of cables 28

Fine wires

- High-precision positioning and winding 32

Drives

- Optimising system efficiency and ecological footprint 34

Profile of a wire manufacturer

- Rope wires from the cradle of German wire drawing 36

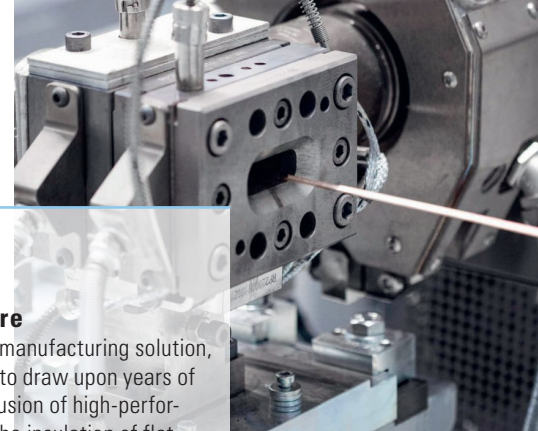
Associations / Events

- VDKM in America "Cable & Wire West Coast" 38

Columns

- Editorial 3
- Industry news | Business 6
- Industry news | Trade fairs 8
- Research 10
- Reports 14
- Products | For manufacturers 37
- Associations | Cable & Wire West Coast 38
- Preview | Imprint 42

www.wire-magazine.de

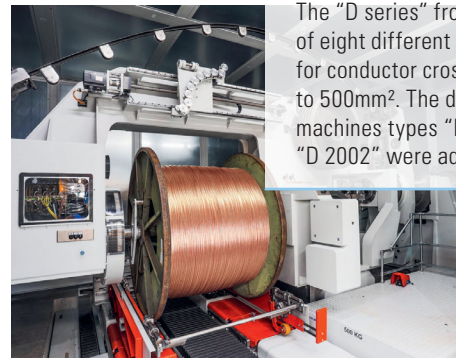


18 Paving the way for 800V and more

In developing a new manufacturing solution, Rosendahl was able to draw upon years of expertise in the extrusion of high-performance plastics and the insulation of flat cables and bus bars. The company swiftly adapted its machinery and processes.

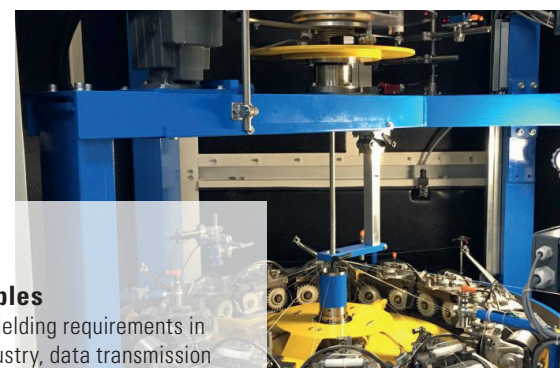
20 Efficient stranding of larger power cables

The "D series" from Niehoff now consists of eight different sized models designed for conductor cross-sections from 0.013mm² to 500mm². The double twist stranding machines types "D 1252", "D 1602" and "D 2002" were added.



22 Wafios welcomes e-mobility experts

The Reutlingen E-Mobility Days (RED) take place for the fourth time on October 17-19, 2023. Technologies and manufacturing solutions are presented without which modern e-drives are no longer conceivable.

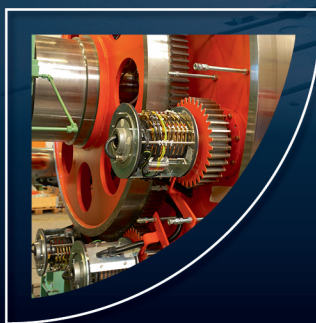


28 Braid and tape shielding of cables

Increasing cable shielding requirements in the automotive industry, data transmission and high-frequency cables are achieved through the pairing of braiding or spiralling and taping shields.

First Class Stranding

with all advantages associated with the name SKET



MKVS 1+8x1000/KD 8x315

planetary stranding machine with variable backtwist

Mainly used for the manufacture of high quality steel wire strand and ropes.

SKET
Verseilmaschinenbau GmbH

Schönebecker Str. 82-84 · 39104 Magdeburg · Germany
Phone: + 49 (0) 391 40558-0 · Fax: + 49 (0) 391 40558-15
E-Mail: info@SKETVMB.de · Internet: www.SKETVMB.de

