Innovation through Expertise

World First in Wire Drawing: Oil- and Volatile Organic Compounds (VOC)-Free Corrosion Protection Sets New Industry Standards

The technology partners Traxit Wire Lubrication, a brand of Klüber Lubrication, Maschinenfabrik NIEHOFF GmbH & Co. KG, and EJP WIRE Technology GmbH are presenting a technological world first for the wire industry: a completely oil- and volatile organic compounds (VOC)-free corrosion protection system that is applied inline immediately after the drawing process.

The newly developed process creates a stable, homogeneous protective film directly within the production process. This reduces additional process steps, significantly lowers packaging requirements, and ensures consistently high surface quality of the wire.

Technical data for example C80

max. speed	20 m/s
Heating temperature	120 °C
max. diameter	1.30 – 2.40 mm

TRAXIT WIRE LUBRICATION

EJP WIRE TECHNOLOGY

NIEHOFF GRUPPE

Meeting the Growing Demands of the Wire Industry

Wire producers worldwide are facing increasing challenges. Reproducible surface quality, high process stability, and energy-efficient production must be combined with minimal downtime and as few downstream process steps as possible.

The jointly developed corrosion protection system addresses these requirements in a targeted manner. It provides a thermostable, completely oil- and VOC-free corrosion protection that ensures consistent quality even at high production speeds. The improved protective film helps reduce material-related claims, while the precise and controlled application enables a high level of process reliability.

Inline Application for Maximum Process Reliability

The corrosion protection is applied immediately after the drawing process and before the wire is wound. The uniform protective film reduces cleaning effort, process risks, and quality variability, especially on high-speed lines.
At the same time, integration into existing production environments is significantly simplified.

Benefits for the wire drawing industry

- **High process reliability:** Clean, controlled application and a stable protective film
- **Energy and cost efficiency:** Corrosion protection in a single process step with significantly lower additional costs compared to conventional systems
- **Sustainability:** Complete elimination of oil- and VOC-containing products and reduced need for special corrosion-protective packaging
- **Future-ready integration:** Compatible with both existing and new production lines

Availability and Licensing Model

The process is currently subject to an ongoing patent application by the three partner companies. It is offered exclusively as an integrated licensing system. This ensures that all components are optimally coordinated, misapplication is avoided, and the system operates at maximum performance. Customers benefit from reproducible results and a single point of contact throughout the entire project lifecycle.

Contact and Testing Opportunities

Companies interested in test runs, line analyses, or integration consulting can contact EJP WIRE Technology GmbH directly (www.ejpwire.com). The expert team supports the entire process, from technical evaluation through commissioning.

Contact

We reserve the right to modify technical specifications according to technical improvement and advances. 04.2026

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