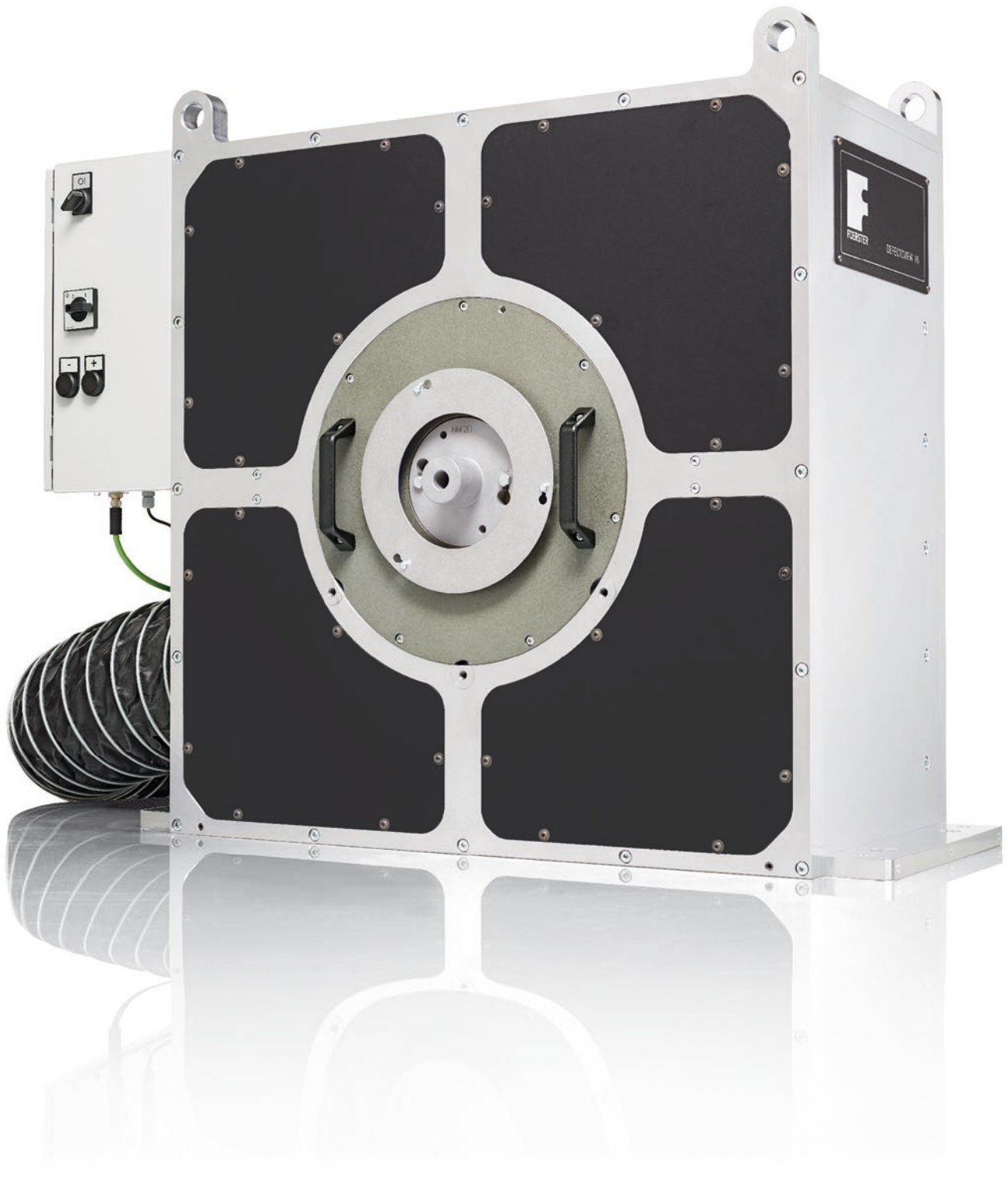


DEFECTOVIEW HS

High-speed photography for documentation of quality in wire rolling mills



High-speed camera system for documentation of material defects

Do you operate a wire rolling mill with an eddy current inspection system based on DEFECTOTHERM coils? Do you want to know more about the quality of your product than just what the relatively uninformative and abstract eddy current signals tell you?

With the DEFECTOVIEW HS optical documentation system, FOERSTER offers an innovative and useful complement to your existing DEFECTOMAT eddy current testing system.

Triggered by defect signals from the eddy current sensor, images of the defective wire surface are recorded and stored for your quality documentation. Even at the highest production speeds, the discovered material defects are still imaged in great detail.

Four high-speed cameras, along with specially adapted LED illumination, ensure that the entire wire surface can be covered.

Meaningful images provide more information

As soon as the wire rod has been rolled, you can review and evaluate the detected defects visually. This allows

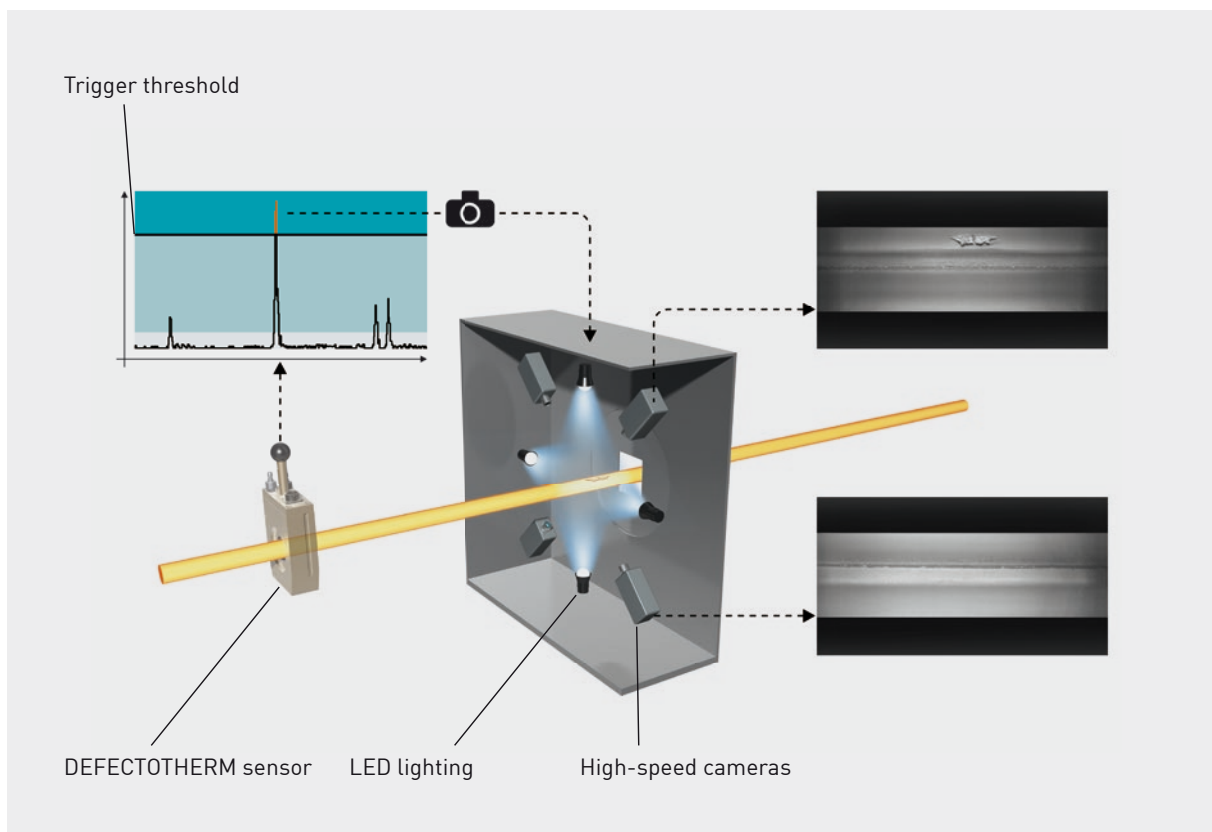
you to draw conclusions about potential production problems at a very early stage and to take targeted measures.

To do this, you directly compare the obtained image data with the corresponding eddy current test data. This combination of data is presented via the DEFECTOVIEW HS user interface.

Maintenance-friendly

We know the harsh conditions that exist in rolling mills. That's why we designed the DEFECTOVIEW HS system to be particularly maintenance-friendly. A special glass cylinder protects the cameras and LED lighting so well that even water cannot get in to do them harm. Scale and dirt that enter the system along with the wire are immediately removed by a fan. This reduces the cleaning effort to a minimum.

Since all installed components are easily accessible, maintenance is quick and simple to carry out.



Images triggered by eddy current signals from a DEFECTOTHERM coil

The benefits

Visualization of the defects

Because you can see the defects detected via eddy current, you can better interpret the signals and more quickly draw conclusions about possible problems in the production process.

Optimized for use in the rolling mill

The DEFECTOVIEW HS system can be used at speeds of 150 m/s or more and temperatures over 1000°C.

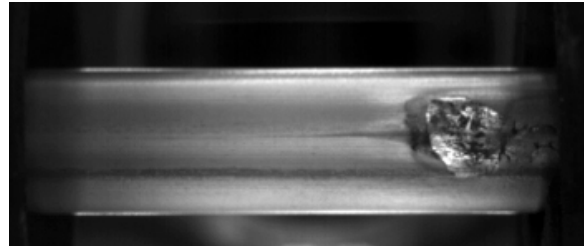
Faster commissioning of new test equipment

With the help of DEFECTOVIEW HS's informative defect images, you can adjust a new eddy current testing instrument to your rolling mill faster than ever before. In this way, the selected test parameters can be visually verified, increasing their reliability.

Compact design and easy integration

Due to the camera system's modest size – 49 x 95 x 87 cm (L x W x H) – and its low precision demands in terms of wire guidance, the flexible DEFECTOVIEW HS is especially easy to integrate into existing rolling mills.

Since the images of the wire are taken continuously, DEFECTOVIEW HS can be positioned anywhere behind the DEFECTOTHERM coil.



Uniform operating structure

The software interface is clearly structured and adapted to the proven operating concept of the DEFECTOTEST DA software.

Long cable runs

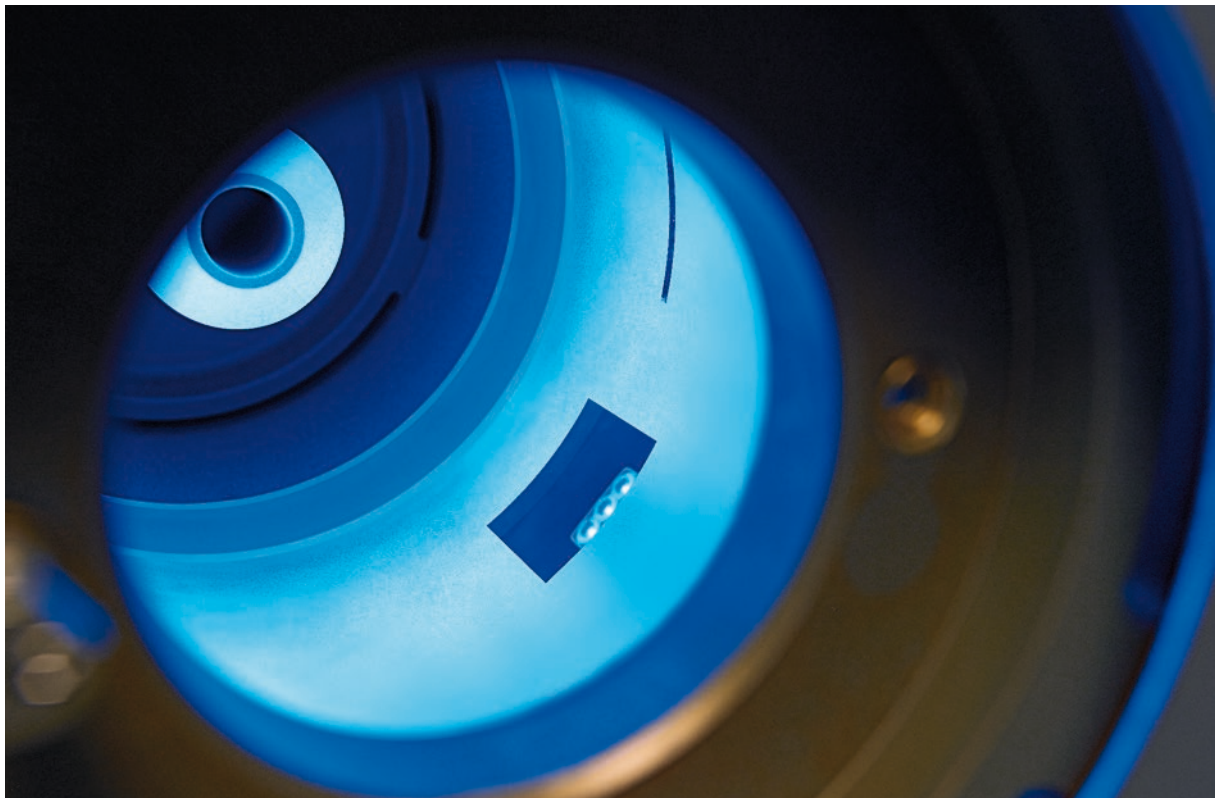
In addition to the standard-issue CoaXPress for data transmission over distances of up to 40 m, you can also optionally select for transmission via fiber optic cable. This allows for bridging distances of up to 150 m without interference and thus to house the electronics in a more protected area.

Flexible installation of the electronics

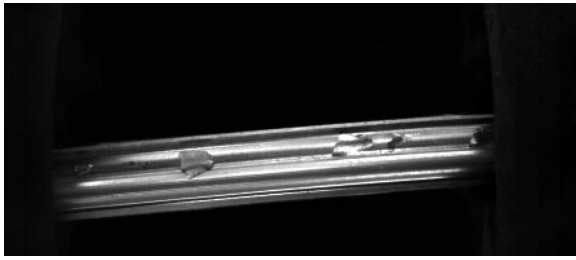
Due to the modular design of the electronics, customer- and application-specific installation of the components is possible, whether in a standalone control cabinet, in a proprietary DEFECTOMAT DA electronics cabinet, or in built-in 19-inch control cabinets. Together, we'll find the right solution for you.

Access to image data in the database

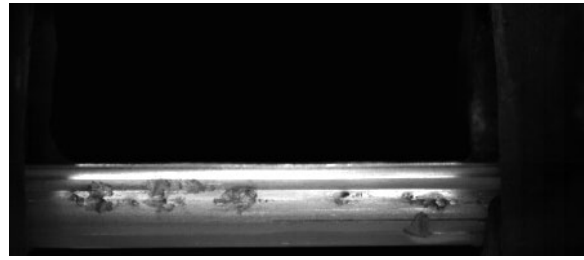
The image data can be viewed side-by-side with the eddy current data on the 'Imageviewer'.



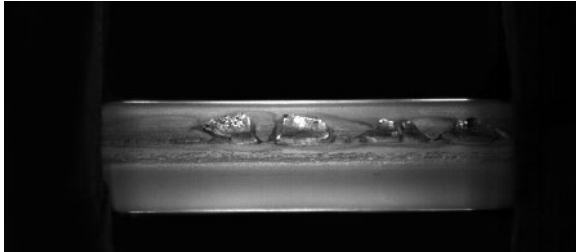
Images of material defects taken with the DEFECTOVIEW HS system



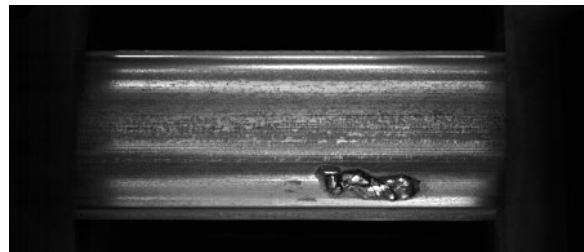
Wire diameter 5 mm, speed 85 m/s



Wire diameter 8 mm, speed 50 m/s



Wire diameter 13 mm, speed 25 m/s



Wire diameter 15 mm, speed 20 m/s

For further questions you are welcome to contact us.

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