



INTEGRATED INTELLIGENCE WE MAKE COMPLEX THINGS SIMPLE

Our machine exhibit shows the complex challenges of combining drive technology, controlled web tension, guided webs, precise inspection and visualisation in a very small space.

rotary drives from the EL.MOTION series are connected to the PD 30 and PD 40 measuring roller systems and regulate the respective web tension fully automatically. A third motor with drive-integrated "Safe Torque Off" safety function serves as a tension system and impulse generator.

The system, equipped with our standard components, demonstrates how easy it can be to fulfil complex requirements and thus master processes.

Specifically, three web tension systems interact with each other. The two

The pivoting frame systems DRB23 and – brand new in an elegant, extremely flat design – DRB11 combine web tension measurement, visualisation, control and interfaces for a wide range of applications. The systems' unique performance in terms of accuracy and control dynamics is only possible thanks to highly integrated drive technology. Both systems only require a power supply and an Ethernet interface for operation.

We talk about complexity because we understand it.

Tailor-made solutions for different production lines

- Label printing machines
- Inspection rewinders
- Digital printing machines
- Web-fed offset printing machines
- Flexo printing machines CI
- Gravure printing machines
- Lamination and coating machines
- Slitter rewinder machines



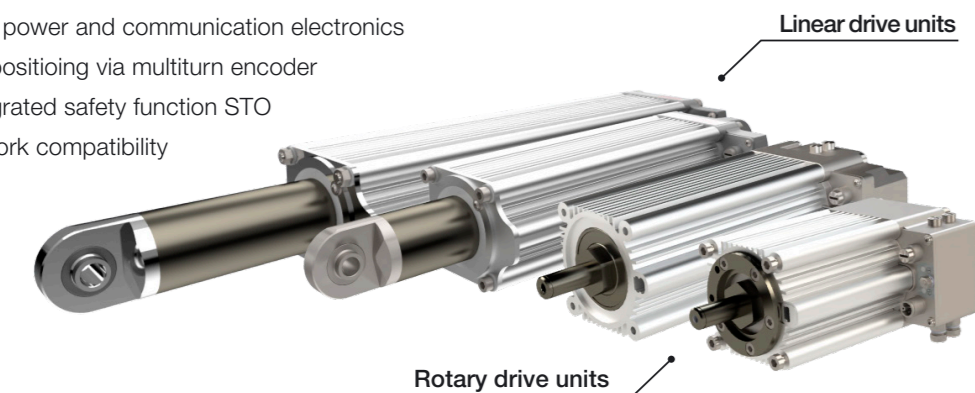
Discover all products

SMARTSCAN | ELGUIDER | ELSCAN | ELTENS

DRIVE TECHNOLOGY

Drive technology for industry 4.0 | EL.MOTION

- Linear and rotary drive units
- Automatic System Identification ASI and web-based management
- Integrated power and communication electronics
- Absolute positioning via multiturn encoder
- Drive-integrated safety function STO
- High network compatibility



Linear drive units

Rotary drive units

Erhardt+Leimer GmbH
Albert-Leimer-Platz 1
86391 Stadtbergen
Germany
Phone +49 821 2435-0
info@erhardt-leimer.com
www.erhardt-leimer.com

Erhardt+Leimer S.r.l.
Via Silvio Pellico, 20 / 20 A
24040 Stezzano-Bergamo
Italia
Telefono +39 035 2050711
commerciale@erhardt-leimer.com
www.erhardt-leimer.it



WE KNOW THE GRAPHICS INDUSTRY

Quality assurance of the production process is one of the major challenges in the graphics industry. This requires the monitoring, measurement and evaluation of all factors that influence the quality of processes in the graphics industry. Continuous web guiding and web tension control as well as web monitoring and inspection play a particularly important role here.

reduce waste. New functions with high customer benefits are the means of choice to clearly differentiate ourselves from the global competition in the graphics industry.

As market leader, Erhardt+Leimer utilizes its combined expertise in material selection, engineering and the production of high-quality components, modules and systems to set new standards.

With efficient monitoring functions, we enable our customers not only to achieve a significant increase in quality, but also to save a great deal of time and money and to

CREATIVE AUTOMATION

OUR SOLUTIONS FOR YOUR EXCELLENCE

WE KNOW THE GRAPHICS INDUSTRY

- WEB INSPECTION
- WEB GUIDING
- WEB MONITORING
- DRIVE TECHNOLOGY
- THICKNESS AND BASIS WEIGHT MEASUREMENT

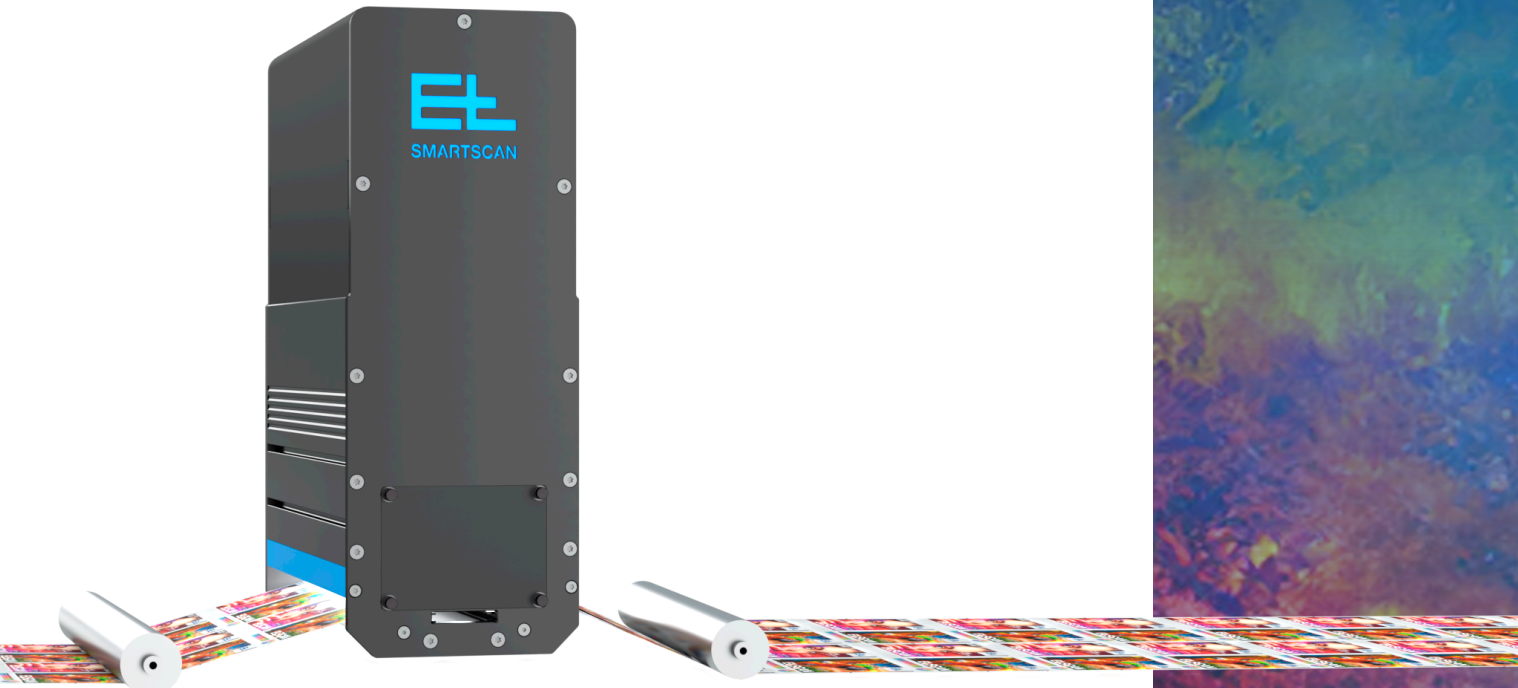


PRINT IMAGE INSPECTION

Print image inspection | SMARTSCAN MIS2

200% INSPECTION · 100% AFFORDABLE · 0% DEFECTS

- Camera system with unique 200% inspection function
- For printing and finishing machines in label and narrow-web applications
- Continuous double inspection of the entire width and length of the web
- Web monitoring with zoom function
- Detection of print defects, missing labels, unremoved matrices, splice points, flags, color defects, damage, etc.
- Counting function for labels and defects
- Log function for the inspection runs
- Signal output for customer-side defect location or to activate signal lamps



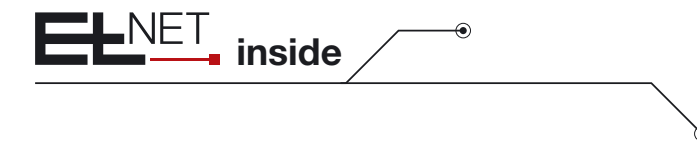
The SMARTSCAN 200% concept is unique on the market

WEB GUIDING

Elegant pivoting frame system | ELGUIDER DRB11

100% space-optimized solution

- Maximum optimized design
- Highly precise and highly dynamic
- Component replacement via auto-restore function
- Intuitive, guided commissioning
- Virtual operation concept



Compact pivoting frame system | ELGUIDER DRB23

Highest control accuracy up to $\pm 50 \mu\text{m}$ and highest control dynamics

- Digital, Ethernet-based system
- Brushless drive technology
- Commissioning, operation, and maintenance via web-based management
- Industrial Ethernet interface
- Intuitive operation due to graphical touch operating panel



WEB MONITORING

Web monitoring system | ELSCAN OMS5

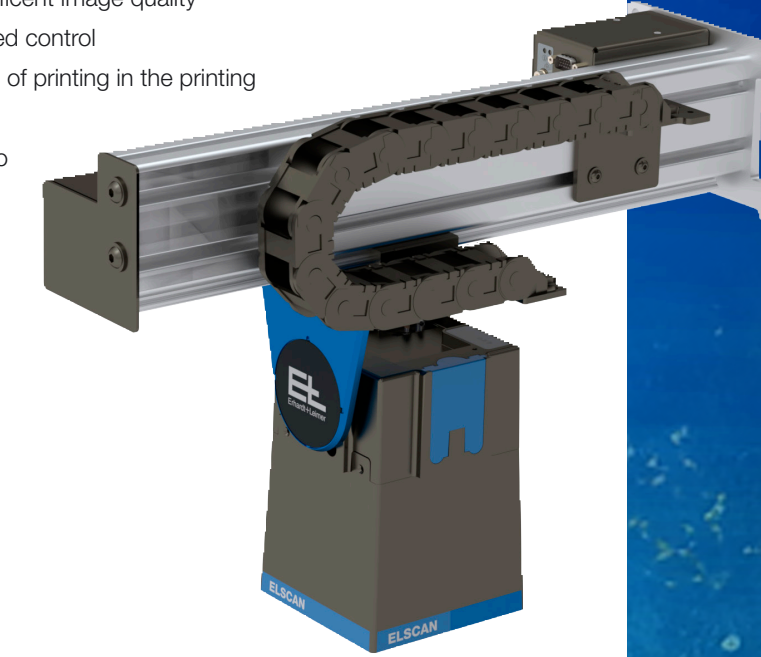
Due to a completely new lighting concept, ELSCAN OMS5 is perfect for the printing market. Irrespective of whether reflecting foils/films, paper with varying properties, whether transparent or opaque, OMS5 is the all-round solution for your production.

DualView – the hallmark of ELSCAN

- Technology with 2 x 18 megapixels for magnificent image quality
- Motorized crossbeam with precise, high-speed control
- Unique LED-based flash concept for all types of printing in the printing industry
- Very straightforward system integration due to the new quick alignment function
- Comprehensive synchronization concept for stable web synchronization
- Powerful processor for smooth working
- Maximum field of view 100 x 75 mm
- Maximum web width 2500 mm

Software

- Autoscan functions (X/Y/100%/meander)
- Digital repeat overview for fast navigation
- Position gallery with 21 storable positions
- Master image comparison in different variants
- DeltaE color monitoring
- Image stabilisation
- Automatic job change detection
- Archiving of repeat orders



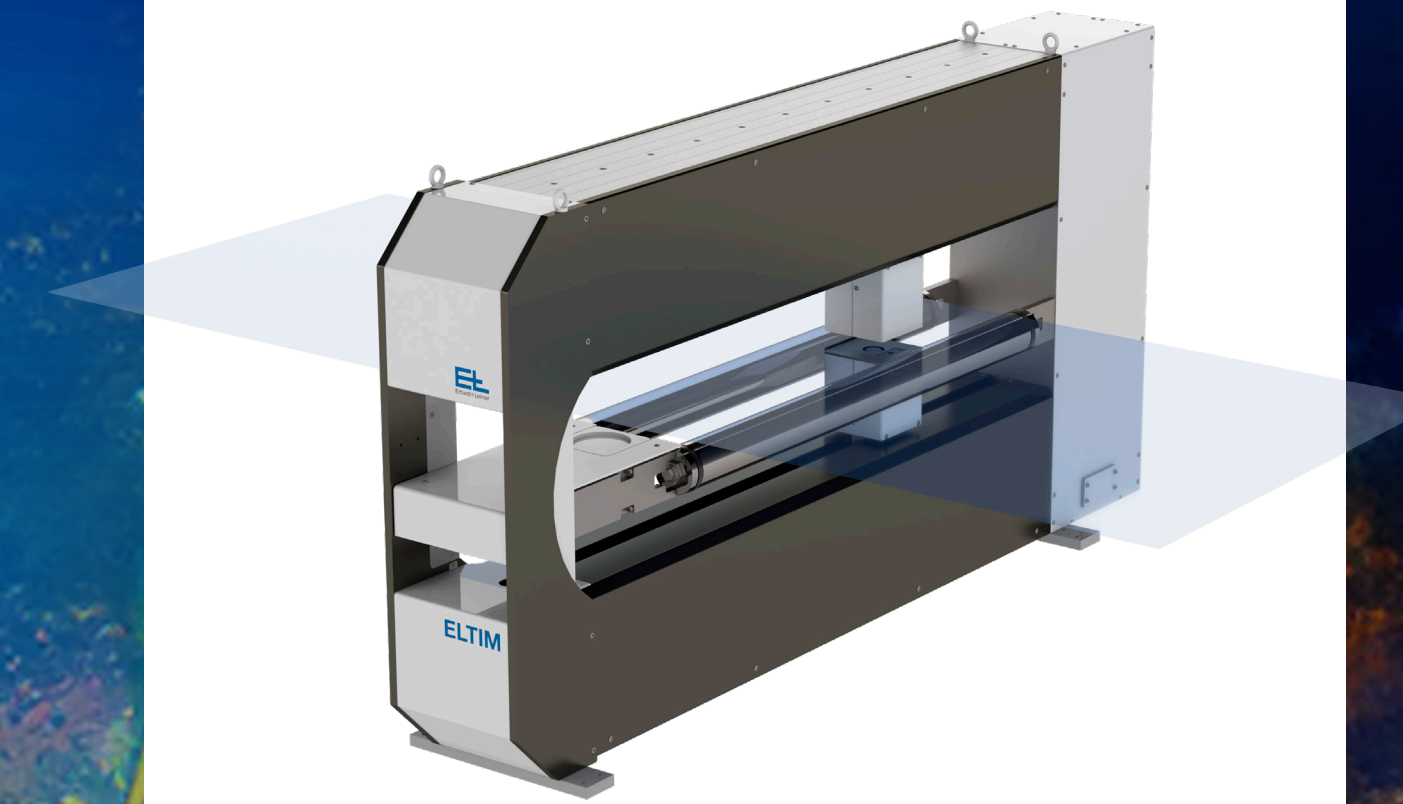
Black Line – the new product line of the E+L vision world
Latest features encased in a black design

THICKNESS & BASIS WEIGHT MEASUREMENT

Thickness & basis weight measurement | ELTIM BWS10

Ultrasound-based – no harmful radiation

- No danger from radiometric radiation or X-rays
- Compact system, easy to integrate in existing machines
- Small detection area for highest accuracy
- Sensors for detection of ambient conditions that potentially impact on processes
- Precise time log synchronization
- Insensitive to fluctuations in the web height
- Insusceptible even to color fluctuations
- Maintenance-free transmitter and scanner



No danger from radiometric radiation or X-rays