

BATTERY INDUSTRIES

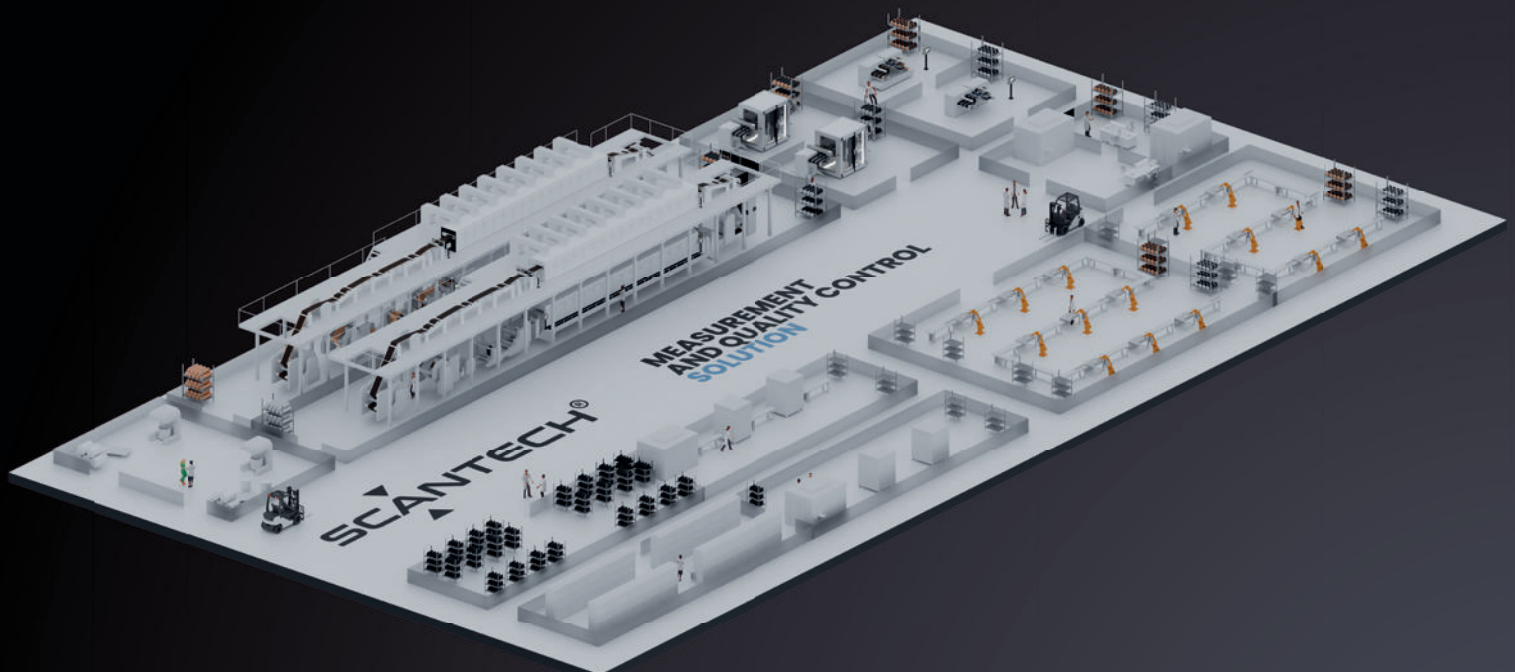
ONLINE MEASUREMENT AND CONTROL SOLUTION

ALUMINUM & COPPER FOIL LINES

ANODE & CATHODE COATING LINES

ANODE & CATHODE CALENDERING LINES

BATTERY SEPARATOR FILM LINES





FRANCE HEADQUARTERS

Founded in 1992, SCANTECH was first to introduce low-energy x-ray transmission technology for the measurement of lightweight materials. Today, over 1,000 scanners are installed annually around the world for many types of production lines, including all types of extruded films, non-woven fibers, metals, papers, lamination and coatings processes.

SCANTECH continues to lead the world-wide market for X-ray, laser, infrared, and microwave online measurement and control systems, as well as visual inspection tools thanks to our focus on innovation. We are dedicated to expanding and perfecting our offer to include groundbreaking technology, ergonomic UI, and automatic calibration.

SCANTECH is headquartered in France, with fully-owned subsidiaries in China (Guangzhou), the USA, Germany, Italy, South Korea, India, Malaysia, and Taiwan. All core components, such as sensors and electronic circuit boards, are designed in France and the entire production process is supervised by the R&D department based in the headquarter in France.

To ensure product quality and customer satisfaction, each subsidiary provides comprehensive customer support, and installation and maintenance services locally. With multiple assembly centers around the world, SCANTECH can supply the same high-quality products to domestic customers, and provide timely service and a complete stock of spare parts.

Each center is in full accordance with the quality standards of SCANTECH's production plant in France.

ONLINE M
AND COM

>1000

SYSTEMS INSTALLED PER YEAR

8000+

SYSTEMS INSTALLED WORLDWIDE

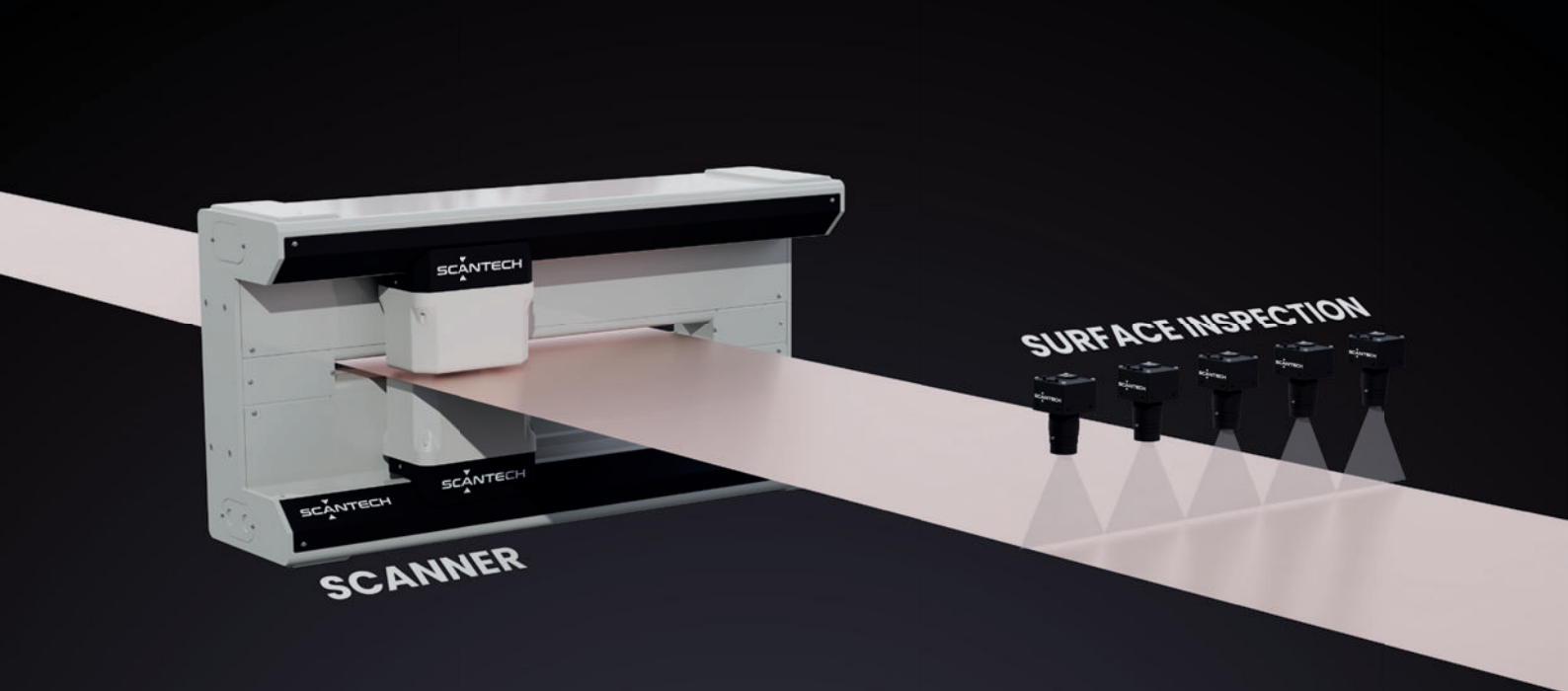


SCAN ME AND
DISCOVER MORE
ABOUT **SCANTECH**

MEASUREMENT
CONTROL

ONLINE MEASUREMENT AND CONTROL SOLUTION

ALUMINUM & COPPER FOIL LINES



MEASUREMENT SYSTEM

1 **SCANNER**: Thickness measurement

HMI

- 1 **SUPERVISION** station with the **FLEXSCAN** interface
- **OPC-UA** connection

LOCATION

- On the slitter line for copper foil
- On the lamination line for aluminum foil

FEATURES

SCANNER

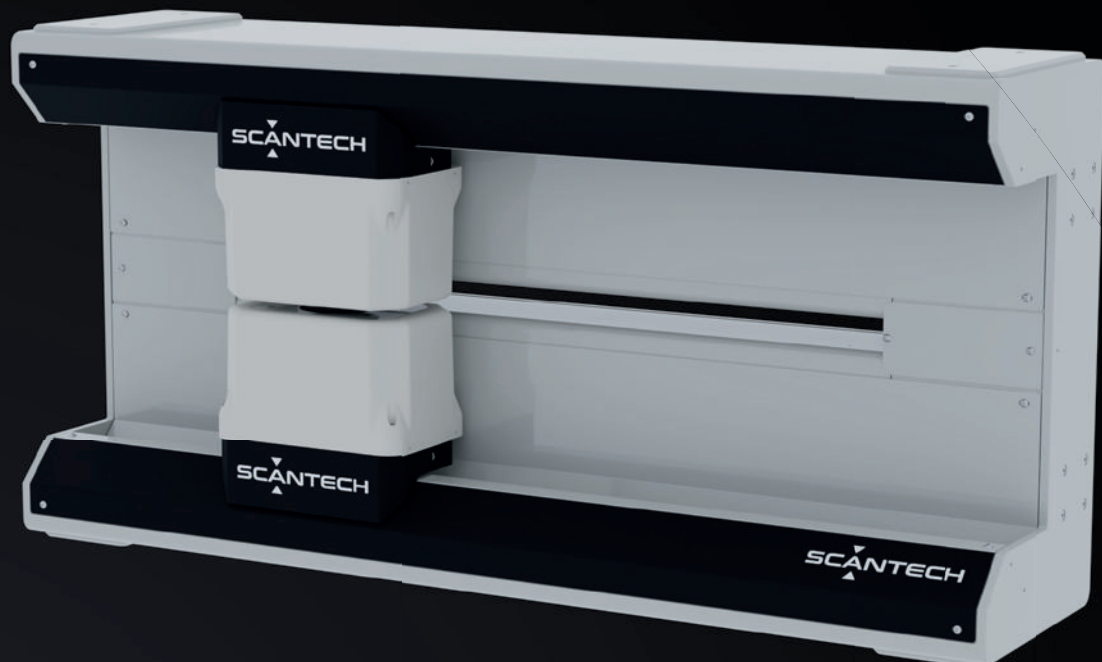
Type: O-Frame

Width: from 500 to 2000mm

MEASUREMENT

THICKNESS MEASUREMENT

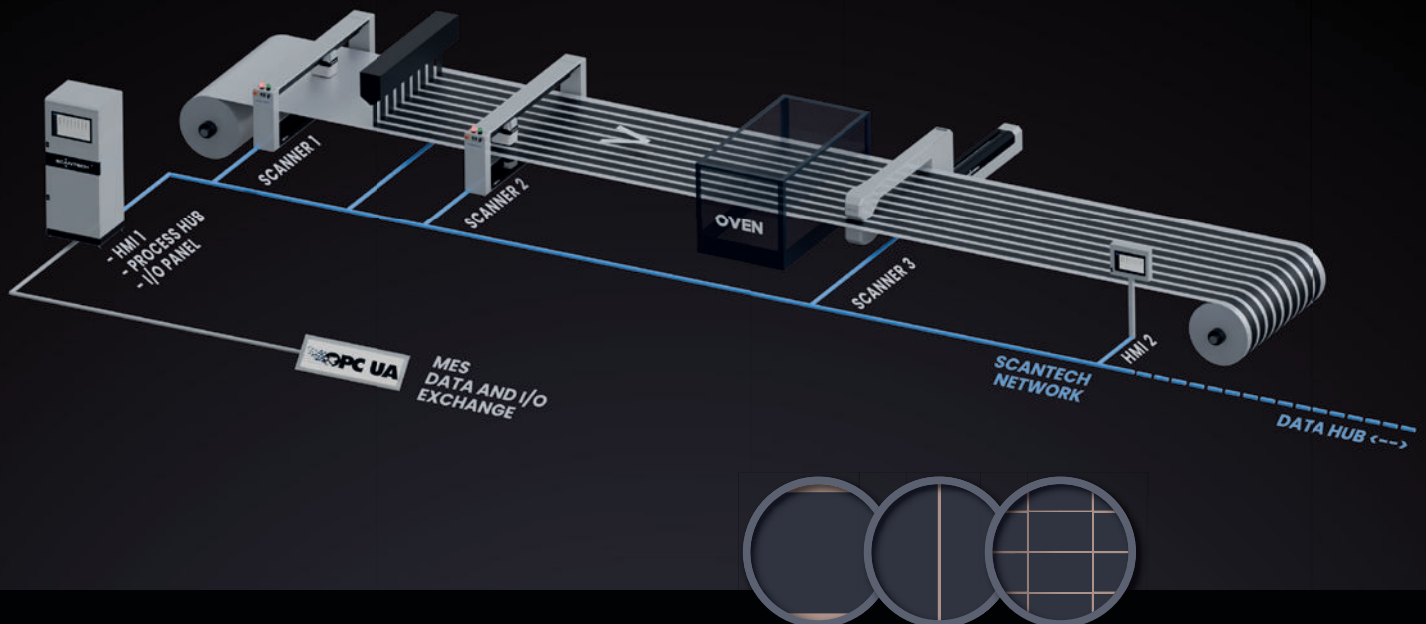
- Technology: X-RAY transmission sensor
- Product range: 1 to 100 μ m
- Accuracy: Better than 0.1%



ONLINE MEASUREMENT AND CONTROL SOLUTION

ANODE & CATHODE COATING LINES

R&D, PILOT AND PRODUCTION LINES



SINGLE COATING LINE

3 SCANNERS using our advanced SAME SPOT technology

Scanner 1:

Substrate measurement

Scanner 2:

Wet coating measurement

Scanner 3:

Dry coating measurement

Optional: Density measurement

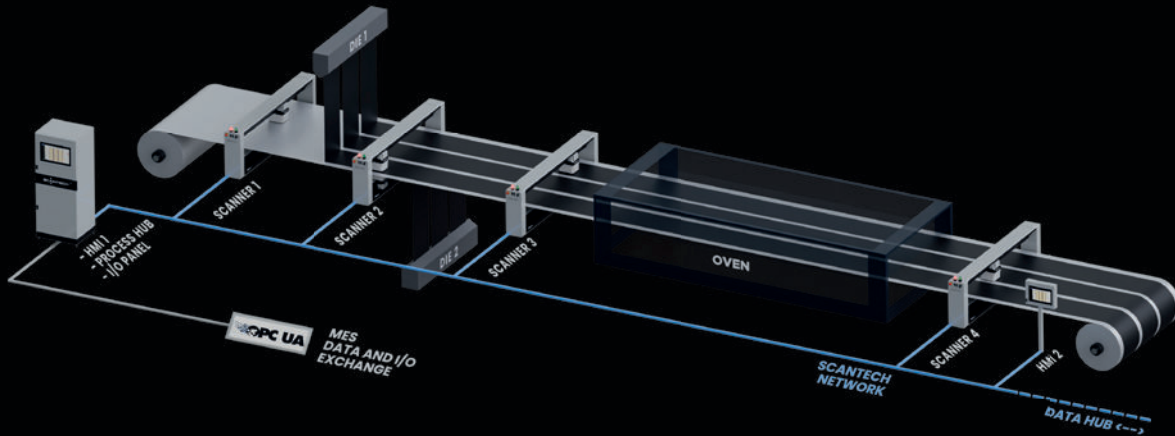
HMI's

- 3 SUPERVISION stations with the FLEXSCAN interface

- 2 HMI's dedicated to the coating stations
- 1 full-line HMI inside the control room
- OPC-UA connection

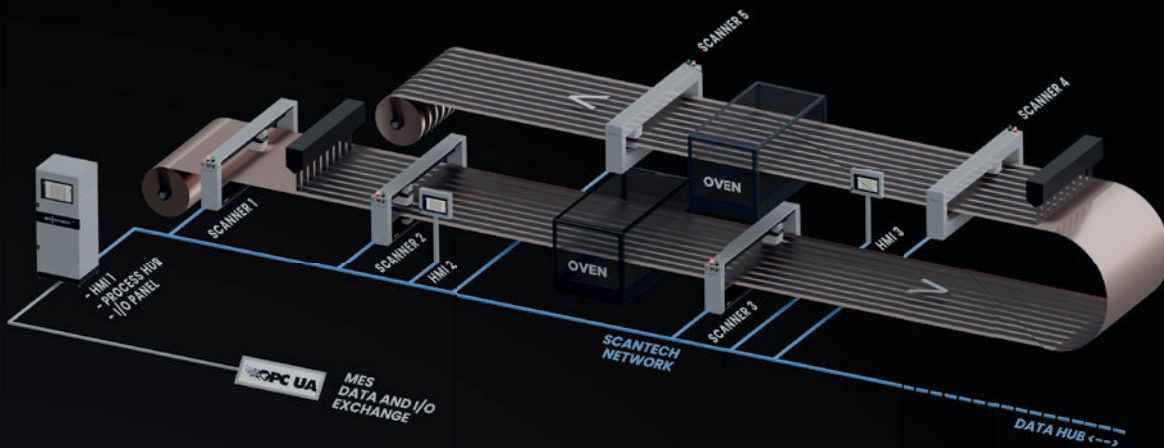
SIMULTANEOUS COATING LINE

4 SCANNERS using our advanced SAME SPOT technology



TANDEM COATING LINE

5 SCANNERS using our advanced SAME SPOT technology



FEATURES

SCANNERS

Type: O-Frame and/or C-Frame

• Up to 1500mm for anodes and cathodes

MEASUREMENTS

WET / DRY COATING BASIS WEIGHT MEASUREMENT

- Technology: autocalibrated transmission sensor
- Product range: 1 to 500g/m²
- High edge detection resolution
- Repeatability: Better than 0.1%
- Autocalibration: ± 1% of absolute value
- “Bunny ears” profile visualization

OPTIONAL

DRY THICKNESS MEASUREMENT

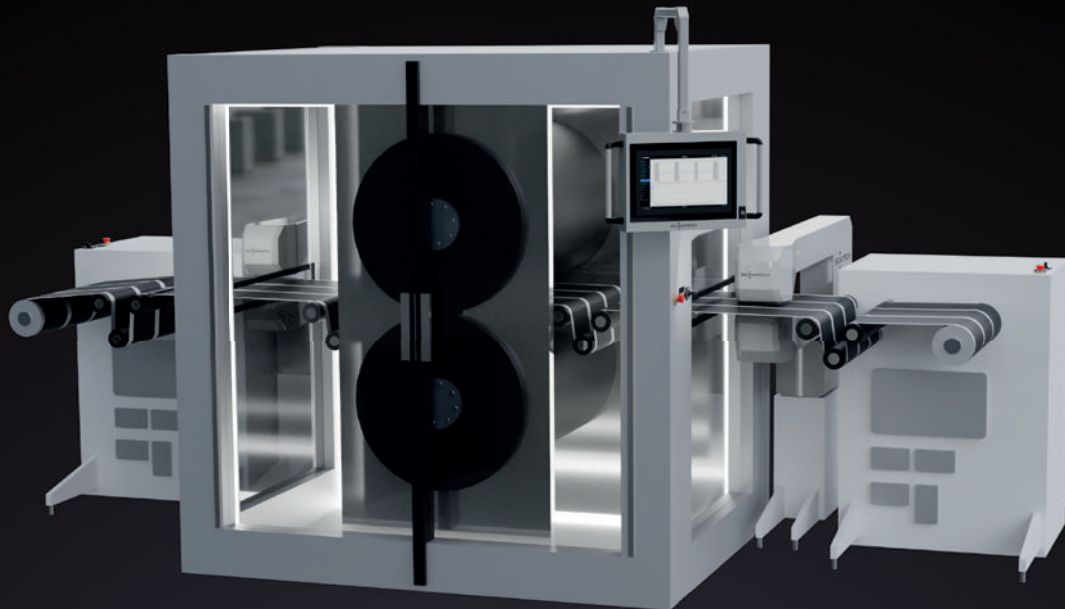
- Technology: optical sensor
- Product range: 1 to 3000µm
- Accuracy: ± 1µm

DENSITY MEASUREMENT

- Technology: optical sensor + autocalibrated transmission sensor

ONLINE MEASUREMENT AND CONTROL SOLUTION

ANODE & CATHODE CALENDERING LINES



MEASUREMENT SYSTEM

CONFIGURATION 1

Thickness after calendaring

CONFIGURATION 2

Thickness before and after calendaring

CONFIGURATION 3

Thickness & Density after calendaring

CONFIGURATION 4

Thickness before and Thickness & Density after calendaring

HMIs

- 1 SUPERVISION station
with the FLEXSCAN interface

- 1 HMI next to the calender station
- OPC-UA connection

FEATURES

SCANNER

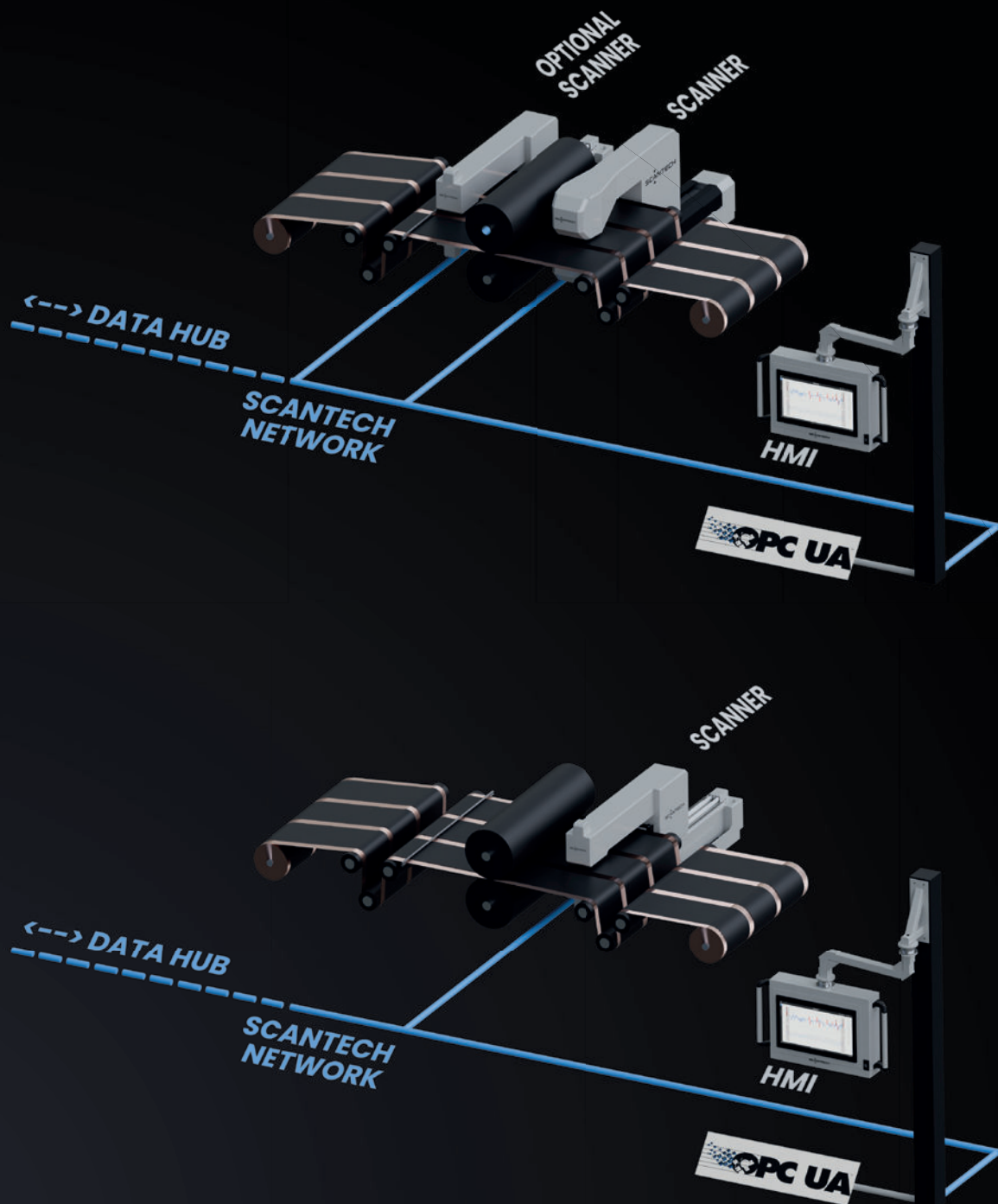
Type: C-Frame

Before and/or after the calender

MEASUREMENTS

THICKNESS + DENSITY MEASUREMENT

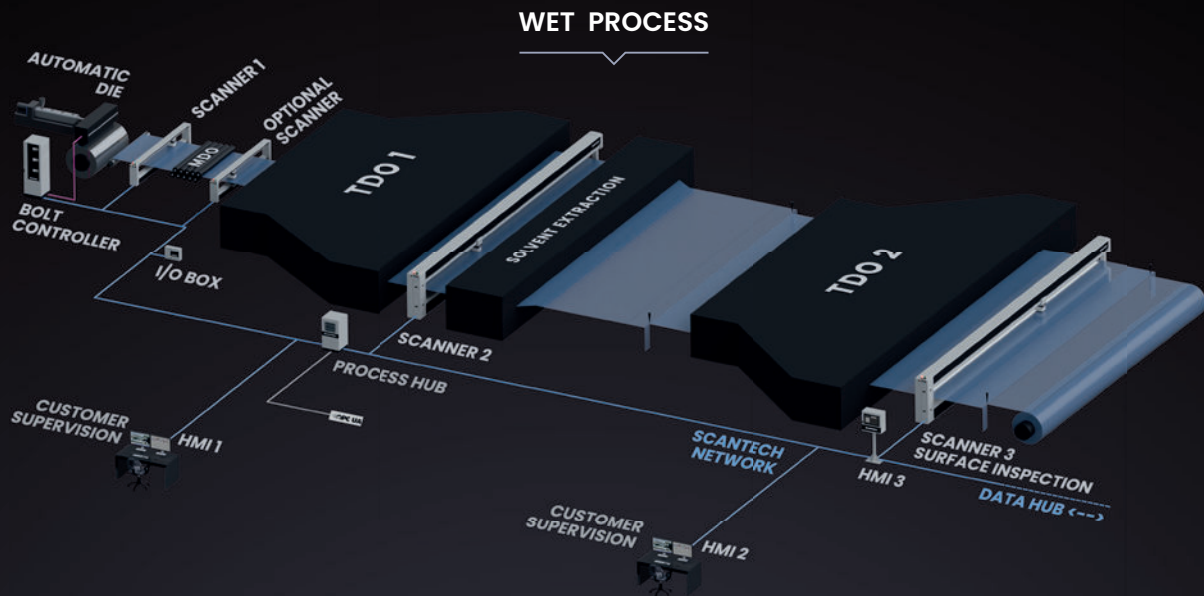
- Technology: optical sensor + autocalibrated transmission sensor
- Product range: 1 to 3000 μ m
- Accuracy: $\pm 1\mu$ m for Thickness
- Repeatability: Better than 0.1%



ONLINE MEASUREMENT AND CONTROL SOLUTION

BATTERY SEPARATOR FILM LINES

MEASUREMENT | CONTROL | VISUAL INSPECTION



CONTROL



AUTO MAPPING

APC - Auto Profile Control



TDO STRETCH PROFILE



MELT FLOW MODEL

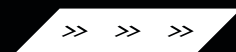


CASCADE CONTROL



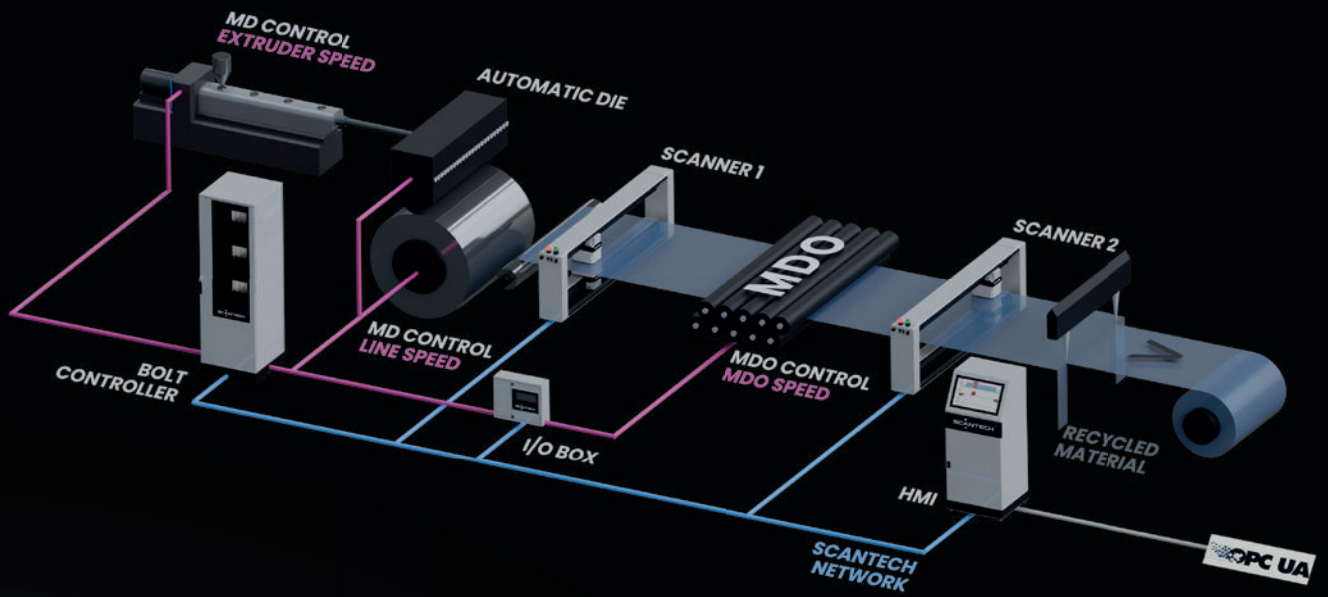
BOLT CONTROLLER

Power & Temperature
Control up to 360 bolts



MDO CONTROL

DRY PROCESS



FEATURES



Thickness



TDO
Stretch Profile



Edge
Profile



Defect
Detection



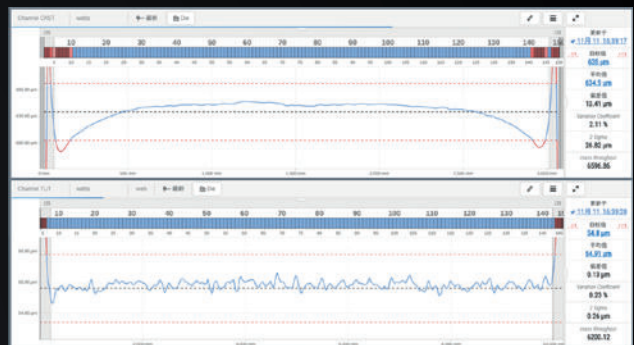
Filler: CaCo_3 | TiO_2 | BaSo_4

FX FLEXSCAN

INDUSTRY 4.0

OPC UA

Bolt representation and automatic die control.





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