

Nireco Announces New Electrode Sheet Inspection System "Mujiken-RB"

- Provides "high-speed, high-definition" inspection and measurement for positive and negative electrode material production and inspection of rechargeable batteries —

Nireco Corporation (Head Office: Hachioji City, Tokyo; President: Toshiharu Kubota) has developed a new electrode sheet inspection system, the Mujiken-RB, that enables inspection and measurement on production lines for positive and negative electrode materials of rechargeable batteries.

Based on rising global concern for the environment, demand for rechargeable batteries for electric vehicles and other applications has dramatically increased, leading to a continuing expansion of production systems for these batteries. The newly developed Mujiken-RB enables improved high-speed and high-definition inspection and measurement over existing inspection systems by employing an exclusive high-speed camera and high-speed image processing engine to improve inspection efficiency in electrode sheet production lines.

In the production of cathode and anode materials, which are key components of rechargeable batteries, inspection machines with high speed and accuracy are needed to insure the high reliability of these materials in end products.

The Mujiken-RB is the latest electrode sheet inspection system in Nireco's Mujiken series, which was launched in 2009 and has a proven track record of delivering inspection systems that meet customer needs for improved production efficiency. It includes the functions of an existing Nireco system, the e-FlexEye-RB2, such as inspection of coated and non-coated area defects of coating patterns and simultaneous inspection of front and back surfaces, while also incorporating a new type of image processing board and a new type of camera. The new board and camera enable up to nearly four times faster line speed and up to four times higher resolution inspection at current line speeds compared with the e-FlexEye-RB2. Also, the measuring function achieves higher accuracy and has both the productivity and accuracy required for electrode sheet production lines.



Mujiken-RB

Example of Mujiken-RB system configuration

About Nireco Corporation

Established in November 1950, Nireco's main business field is development, manufacturing, sales and maintenance services for control and inspection equipment. The company has capital of 3,072 million yen and had consolidated sales of JPY 8,117 million in FY2022/03. It is listed on the TSE Standard (securities code: 6863).

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