

Off-line Sheet Quality Inspection System

An off-line quality inspection system designed for rolls or cut sheets of materials such as optical film, glass substrate, and copper foil CCL



For inspection and evaluation of rolls



For inspection and evaluation of A4-sized and other cut sheets

Rewinding Sheet Inspection System (Built-In)

NUW-003



Cut sheet Inspection Stage

Quality evaluation system Ev-01



- Outputs inspection data of foreign materials, scratches, discoloration, and stains on a sheet
- Aggregates all the inspection data
- Displays a graph that shows the defect trend for each lot
- Evaluates under varying inspection conditions and evaluates under reclassifications
- Data can be used as quality assurance data for users

Specifications

Rewinding Sheet Inspection System (Built-In) NUW-003

Line speed	5 to 150 m/min (line speed during inspection depends on the resolution)
Tension	50 N to 150 N
Maximum diameter	φ350mm
Winding direction	Winding, rewinding, inspection and winding, automatic defect position unwinding
Roll orientation	Unwinding (unwinding from the top side or bottom side), winding (winding to the top side or bottom side)
EPC	Equipped with Nireco's latest model
Tension control	Equipped with Nireco's latest model
Drive method	Servo motor drive: one for winding; one for unwinding
Overview	Built-in Mujiken [®] , winding diameter detection and taper control Touch roller unwinding and winding

Note: Please contact us for other specifications.

Cut sheet Inspection Stage Ev-01

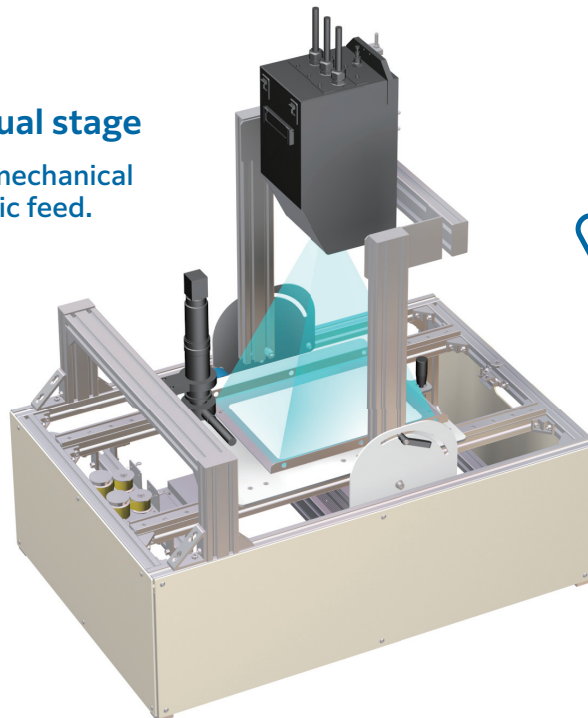
Sheet size	From A4 upwards (please discuss your requirements with us)
Line sensor camera	Various models, such as 8192-pixel, 4096-pixel, etc.
Inspection resolution	10 μm, 20 μm, 20 μm or greater (please discuss your requirements with us)
Lighting units	A combination of transparent and reflective modes. Can switch between them.
Commands	Start inspection, image input, manual movement (+/-), set inspection range, etc.
Data analysis functions	Defect image multi-display, defect map output, CSV inspection data (XY coordinates, size, type), numerical density (number/m ²), particle size distribution data, frequency graph for each type of defect
Drive system	Linear drive by a servo motor in the Y axis
Options	<ul style="list-style-type: none"> - Safety curtain (senses people) - X-axis drive - Projection mapping linkage

Note: Please contact us for other specifications.

A compact and inexpensive manual stage is also available.

Example of manual stage

Note: The slide is a mechanical semi-automatic feed.



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