

Case Study

Egg Industry

Traceability in egg production

SUMMARY

Coding of eggs is legally required and stringently controlled. The information in each individual codes includes country of origin, pack an expiration date or other relevant data. Hitachi's RX-SD InkJet Printer have now been certified by Moba Group, global leader of egg grading, packaging and processing machines.

MOBA

CUSTOMER

Moba Netherlands

INDUSTRY

Egg Industry

DISTRIBUTOR

Clever-CPL BV

SALES OFFICE

Hitachi Europe

Moba Netherlands

Moba, based at Barneveld in the Netherlands, marketed the first egggrading machine back in 1947. Today it has more than 500 employees involved in development, production, sales and service in over 60 countries, including sales offices in America, Malaysia, Japan, England and Germany. Moba provides client-specific total solutions for the egg processing industry that offer ultra-high performance at the lowest possible cost.

CHALLENGE

Coding systems are essential components of Moba's solutions, and are subject to very specific requirements. Special software and ink, specific serial communications options and a choice of mounting arrangements are key features required by Moba for its machines, as well as print quality and reliability, of course. Only manufacturers of coding systems that meet these requirements are included in Moba's selection lists.

SOLUTION

With its RX-SD Ink Jet printer systems, Hitachi Europe has met these high standards and received certification for the egg grading and packing machines for the MOBA Omnia series.

„Hitachi offers a **wide range** of equipment to **meet the special requirements** of the egg-processing industry.“

PRODUCT



MODEL
RX-SD

PRINT SAMPLE



The standard version of this range of equipment offers a wide choice of options to meet the special requirements of the egg-processing industry. Clean printing and good legibility are especially important in egg coding, particularly for multi-line printing.

RX Ink Jet series printer systems are fitted with a special droplet control system that offers especially fine print quality for multi-line coding. The printer systems use the continuous inkjet principle in which ink droplets are formed via a nozzle by means of a piezo-element, and sent at high speed over a charging electrode. Charged droplets then pass between two deflector plates, and are deflected from their original path in proportion to their electrical potential. The droplets that form the printed image in Hitachi's droplet-control system are charged so that very great differences in charge are always created. This allows for interlacing of the drops between lines, producing significantly better print quality compared to other methods.

These printer systems are also characterised by their simple operation and efficient use of consumables. To minimise equipment maintenance downtimes, the printer systems are fitted with filters which make use of a patented connection system, making it very easy to replace. The equipment also has a modular construction so that if a single component fails, it can be replaced individually.

“Hitachi's printer systems are characterised by their simple operation and efficient use of consumables.”

RESULTS

Print system reliability is a key factor for use in Moba's fully automatic egg grading, packing and processing systems. Although they represent only a small cog in the production sequence, they can engender huge costs if they fail. Hitachi Europe therefore imposes very high standards on the development, manufacture and quality control of its printer systems.



On-going monitoring of these processes within the company ensures absolute operational reliability for the Ink Jet Print System. This high standard is continuously maintained and refined in a permanent improvement approach.

The first Moba systems with Hitachi Europe's RX-SD Ink Jet printer systems went into service early in 2013 in two production units in Spain. The smaller facility has two printer systems coding 30,000 eggs per hour, while the larger unit uses a total of six Hitachi printer systems, and can label 180,000 eggs per hour.

MOBA

Certificate

Date: 19-9-2012

We, Moba B.V.

Adres: Postbus 7
Stationsweg 117
3770 AA Barneveld
The Netherlands

hereby declare that following Continuous Inkjet Printer

Brand:	Hitachi
Type:	RX-SD160W
Printing capability on eggs	2 lines, 16 characters per line

complies with the communication protocol for printing on eggs of all graders of the Moba Omnia series. It communicates at the background over a serial protocol in order to organize a library while via a parallel port real time selections from library text are made with a speed of 30,000 eggs per hour per printer. With this accomplishment the printer is suitable to be used on an installed base of over 1000 egg graders world- wide.

Moba will inform its sales network and put the printer on the list of "approved printers" in its commercial documentation.

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