



# Case Study

## Healthcare – Surgical Masks

### SUMMARY

The Miroglio Group is an international clothing manufacturer. The company decided to support the urgent need for surgical masks and switched part of their production line from fashion to surgical masks. The Miroglio Group asked their OEM partner Bianco Engineering for help in finding the most suitable coding and marking solution. Bianco Engineering turned to Marking Products for assistance in the integration. Together, all three companies found the best solution for the Miroglio Group which was a Continuous Inkjet Printer (CIJ) from Hitachi.

**Miroglio**  
Group

### CUSTOMER

Miroglio Group/  
Bianco Engineering

### INDUSTRY

Healthcare

### DISTRIBUTOR

Marking Products

The Miroglio Group converted part of their production line from fashion to surgical masks with a high-speed Continuous Inkjet Printer from Hitachi.

### Miroglio Group

The Miroglio Group is an Italian industrial concern which operates in the textile and women's fashion sectors. It is present in 22 countries, with 37 operating companies and 4 production sites and is a leader in printed fabrics, transfer paper and technical film for the decoration of various types of material.

### Bianco Engineering (OEM)

Bianco Engineering boasts twenty years' experience in the design and manufacture of machines and automatic lines for packaging and industrial automation, in textile, cosmetics, pharmaceutical and automotive sectors.

### Marking Products (Distributor)

Marking Products is an exclusive distributor of Hitachi coding equipment. The company consults and supports in the OEM field and has expertise in system integration.

### CHALLENGE

Bianco Engineering was asked by the Miroglio Group to help them convert part of their production from fashion to surgical masks. Due to the need to ensure masks and packaging correspond to the coding and marking standard EN 149: 2001 +A1: 2009, the Miroglio Group needed a marking system that:

- keeps high-speed production lines moving,
- enables seamless integration of the system with the production equipment, and
- ensures correct serialization, product code and printed information.

Bianco Engineering asked our distributor Marking Products for help and together with the Miroglio Group the three companies found an efficient and cost-effective solution.

## PRODUCT

Inkjet Printer



Production Line with Hitachi printer

## PRINT SAMPLE



## SOLUTION AND WHY HITACHI

Instead of costly printing on labels and then attaching the labels to the flow pack packaging, Marking Products suggested direct printing on the packaging itself. The Hitachi UX-D860W was the optimal choice. This CIJ printer can process large amounts of data, and it is able to print durable and reliable coding of up to 8 lines due to its twin nozzle printhead. Thanks to the expertise of our distributor Marking Products, significant savings were achieved. The Miroglio Group managed to convert part of its production from fashion to surgical masks in a very short period.

The Miroglio Group was able to cut costs and reduce manufacturing time by printing all information directly on its packaging, complying with legal and regulatory requirements such as traceability and durability.

## RESULTS

High-speed production lines, easy integration of new production processes and reliable coding and marking on various substrates are key factors in Industry 4.0 production.

The UX-D860W can print multiple lines of code to match traceability requirements without adding production line complexity or reducing speed. It is factory 4.0 compliant and has configurable integration and application modules which allow a seamless integration with ERP (Enterprise Resource Planning) and other third-party systems. A standard onboard USB port enables fast and simple backup and restore functionality.

With the Continuous Inkjet Printer UX-D860W, Hitachi was able to deliver a tailored solution for the Miroglio Group. With a speed of over 5,000 masks per hour, the UX-D860W was the missing link in the production process. Thanks to its two nozzles, the UX-D860W is easily able to print text, graphics, logos and codes over an extended height consistently clear.

Overall, this was a real success story in a three-way collaboration that benefitted all three companies.

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