

Hitachi Ink Jet Printers have settled in Europe!

Hitachi Ink Jet Printers PX and PB Series

After a good start with the PX Series Hitachi has complemented its range of CIJ printers with the PB Series, which is designed to handle most applications with a slightly reduced specification.

The freely-programmable **PX Ink Jet Printer** is intended for industrial applications. The printer's mode of operation is based on the Continuous Ink Jet (CIJ) principle. Possible uses range from the simplest applications, like printing the date, to complex applications in which the printer can be integrated in a system of machines via a network connection. The optimized print head can be installed in any position and produces a 1 to 4-line printed image in consistently good quality – even on uneven or structured surfaces.

The use of a wide range of different inks enables the marking of extremely diverse materials like films, glass, metal, plastic, paper etc. virtually regardless of the environment. The choice ranges from differ-

ent standard inks to special inks that are colorfast, heat resistant and can be read with UV. Example uses are MHD, lot numbers, logos, barcodes, consecutive numbering, production data like the date, time etc.

The **PX Ink Jet Printer** is operated by means of a 10.4" touch panel with a clearly laid out and simply structured graphic user interface. Viscosity control and integrated solvent recovery reduce the consumption to an absolute minimum. At the same time, the unit operates virtually emission-free, which makes the use of the PX Ink Jet Printer in continuous operation particularly economical, environment and maintenance-friendly.

The **PB Ink Jet Printer** is based on the same proved design concept as the PX, but is instead equipped with a monochrome touch panel. It prints up to 2 lines simultaneously as opposed to the 4 lines the PX can print – which however suits most standard applications, like lot numbers, production data etc.



PX Series

PB Series

Content:



ARLA FOODS

At Arla Foods UK 14 of the new PX printers are used to ensure quality and to reduce downtime on diary filling lines



A clear print at varying speeds!



Reliable in rough environments: Hitachi PX Printer working at 4° C



Kunststoffverpackungen · Plug & Pack-Systeme

Decision in favour of Hitachi PX printer for extrusion machines

- Make broader use of Hitachi printers with the new inks for special applications
- All upcoming exhibitions

www.cij.hitachi-ds.com



USE BY 03.06.20
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LOT NO.
ABCD-1234



ARLA FOODS

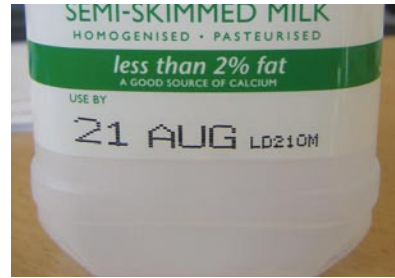
“Easy operation [and] less shutdown time beside a unified installation system has been the criterias for the customer...”



“We decided in favour for Hitachi because of the ease of use, the solid construction and low maintenance costs.”

New dairy packaging line at Arla Foods UK uses Continuous Inkjet System from Hitachi

Arla Foods, one of the world’s largest dairy groups, is establishing one of the most modern plants for fresh milk production at its British location in Leeds. Krones with its headquarters in Neutraubling, Germany, is of the world’s largest manufacturers who develops and manufactures machines and complete lines for all areas of filling and packaging technology, is providing the bottling line and will be responsible for handling the



Print example from labeller station, here bottle size of 1.136 litres

bottling and the line management. The Hitachi Ink Jet Printers are integrated at different stations (filler, labeller, squeezer) within the bottling line in which multiple information

about tracking, checking, traceability & best before date information to be printed. Easy operation, low maintenance costs as well less shutdown time beside a unified instal-

lation system has been the main criteria’s for the customer to utilize Hitachi InkJet printer. Further the task was to connect the printers to the upper supervision PLC via PROFIBUS, so that also other products manufactured by Hitachi Industrial Equipment

Systems group are utilized. Up to 6 bottles/sec are printed in which print job, which differs from bottle to bottle, is provided from upper supervision system.

Hitachi Drives & Automation GmbH, Germany

A clear print at varying speeds!

The dairy drink Yakult for the european market is produced and packaged in the factory of Yakult Nederland B.V. in Almere. The factory manager Dolf Luning is responsible for all the equipment, which is used in its production, amongst them six Hitachi printers.

“We print data on the bottle itself and on the consumer packaging. As we wish to add a batch code for traceability, we had to search for new printers. Our existing printing equipment was not flexible enough for this

purpose. We came across Hitprint and it seemed that the Japanese parent company had already had favourable experiences with Hitachi. We did incidentally compare machines from various manufacturers. We decided in favour of Hitachi because of the ease of use, the solid construction and low maintenance costs.”

What preparations did you make before installation of the machines?

“Much thought went into the installation of the machines. That was necessary, because the bottles are supplied at varying speeds. We wanted to make sure, that the bottles would always be printed very clearly, even at the highest supply speeds. Hitprint advised us concerning an appropriate solution. After due deliberations we placed refill equipment next to the printers und tested them thoroughly. The result is first rate!”

HITprint Ink-Jetsystems Benelux bv, Netherlands



Svenska Allen delivers Hitachi Ink-Jet printer to the company Souperb

It is now already three years since Souperb AB launched their cooled soups direct to the food chains. Since then their soup is the most growing soup product in Sweden.

High quality through all the chains

Souperb increased their turn-over just over 70 percent in year 2003, they are now the market leader in its genre. The business mission for Souperb is to



Reliable in rough environments:
Hitachi PX Printer at 4° C

offer the consumers an easy accessible product with the highest quality and with a genuine taste at a very good price.

This of course demands the highest possible quality through the whole chain. Regarding the choice of a reliable and high quality coding equipment the choice was easy - Hitachi's ink-jet printer delivered by Svenska Allen AB.

Non contact coding

With Hitachi ink-jet printer you can print at a distance up to 10 mm without touching the package. The very advanced ink system with the ink heating device the equipment is working at a temperature down to 0°. The drying time of the ink is only approximately 1 second.

The unique with this installation is that the production temperature is only 4°.

All-print AB, Sweden



High speed printing with
food-save inks



"The very advanced ink system with the ink heating device [...] is working at a temperature down to 0° C."

Strubl KG plastic packaging made it's decision in favour of Hitachi PX printer for their extrusion machines

Strubl KG plastic packaging is a medium sized family owned company. Locations are situated in Wendelstein near Nuremberg and Nabburg. They manufacture polyethylen (PE) as well as polypropylen (PP) packaging foils and related products which are environmentally friendly. A huge line of different branches in Germany and abroad is being supplied by their products, such as automotive, machine manufacturers, medicine/pharmaceutical manufacturers, DIY/home and garden markets, manufacturers of consumer goods for hobby, school, office and tinkering needs, manufacturers of furniture and textiles.

The foil and tubes are extruded from LDPE, HDPE as well as LLDPE. Afterwards this products are being used either as semi finished goods for further processing at Strubl or as packaging foil for automatic packaging machinery at their end customers sites. By adding additives individual

recepies are created. Furthermore a lot of additional additive aggregates come up. The complete spectrum is enlarged by perforation machinery, pre treatment units for a later printing on packaging foil and special punching machines. In this respect „in-line“ printing systems are of high importance.

For recycling purposes the produced foil has to be marked with the corresponding sing of the material used and / or the „green dot“. In some cases an additional environmental text has to be put on. The demand for this signs within the market of PE foil packaging is brought forward by the end customers, however, without the acceptance of higher prices. Therefore this demand has to be fulfilled as economically as possible.



The new extrusion machines of Strubl KG



"Cost comparison as well as advantages in operation were the convincing facts in favor of the PX Series."



On the already existing lines flexo printing was preferred for some technical reasons. However, a strength of Strubl KG is a consistent customer orientation. This is the reason why an optimised realisation of the in-line printing giving a maximum of flexibility has become such a high meaning.

New investments brought new plans - on this occasion the advantages of the continuous Ink-Jet systems by HITACHI came up.

Cost comparison as well as advantages in operation were the convincing facts in favour of the PX series. Also, cost for consumables, easy handling, little dirt and refilling were taken into consideration. The new extrusion machinery was for shift operation. The usual number of staff should work with this new investment.

The ease of use and reliability of the HITACHI ink jet systems were the most important points which made Strubl KG decide in favour of HITACHI although the investment in the beginning was higher.

Allen Codiergeräte GmbH, Germany

PE LD RECYCLABLE UMWELTFREUNDLICH
LD ECOLOGICAL

Special purpose inks

A range of new Hitachi inks meet your needs on special applications. Developed for long-lasting, clear prints they extend the use of our multi-purpose printers even more.

Application	Ink
Yellow ink	Y37
UV light readable	S63
Plastics, especially PP (Polypropylene)	K72

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HITACHI

Inspire the Next

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Upcoming exhibitions

Date	Exhibition
22.-26.11.04	Emballage, F-Paris
23.-25.11.04	SPS/IPC/Drives, D-Nuremberg
30.11.-03.12.04	ViniTech, F-Bordeaux
05.-06.04.05	Empack, NL-Den Bosch
21.-27.04.05	InterPack 2005, D-Düsseldorf

European Distribution and Service Network

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