



KONICA MINOLTA

Giving Shape to Ideas

ACCURIOLABEL 190

FULL COLOUR LABEL PRINTING SYSTEM



AccurioLabel
190

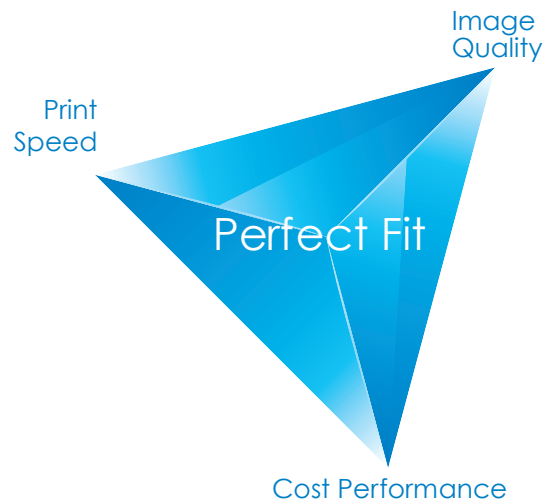
Just the size flexible enough "Perfect Fit" Label Printer

The AccurioLabel 190 has been created to take center stage on the globally-expanding digital label market. The adoption of a production printer as the engine, which represents the culmination of cutting-edge technologies amassed by Konica Minolta over a span of many years. The AccurioLabel 190 contributes to business expansion by perfectly balancing customer needs from the perspectives of quality and cost.

- High image quality of 1200dpi, close to offset printing
- Space-economical design with a footprint of 5.0m x 3.0m*2
- Productivity at a top class, maximum speed of 13.5m*1 for tack paper
- Ensures facilitation of work during procedures such as maintenance and job changes

*1: Feeding speed needs to be changed depending on the paper type:
18.9, 13.5, 9.45m/min.

*2: System size: approx. 1,100mm (D) x 4,000mm (W)

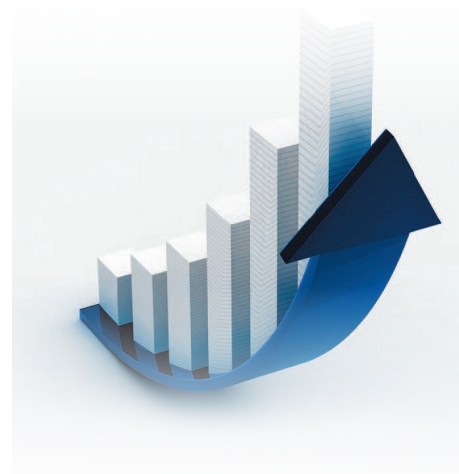


Digital Label Printer Matched to Market Needs

The global label market continues to expand by the day with the prospect of further stable growth in the future. The ratio of demand for digital labels is increasing year by year, giving rise to a trend of growing demand for small-lot printing

Why Digitise Label Printing?

As the number of high-mix low-volume print jobs continues to increase, print companies now find themselves in a position where they also need to be able to cope with orders with shorter lead times than with conventional high-volume printing. Printing demands that were difficult to cope with using analogue printers can now be handled efficiently thanks to the flexibility that is one of the advantages of digital printing. The added value that digital printers provides for tasks such as variable and numbering printings enables print companies to realise product differentiation amidst diversifying market needs.



Problems with analog machines

Settings such as color tone adjustments and ink cleaning are required.

- 1 Preparatory time for exchange of printing plate, etc. is necessary for each job.
- 2 A significant amount of roll paper is wasted by tasks such as trial printing.
- 3 Expert knowledge and proficiency are required.

Merits of digital machines

Data is output directly from a PC.

- 1 Preparations involve only tasks such as paper replacement and colour tone adjustments
- 2 Stable output is possible from the very beginning of the print job, minimising paper waste.
- 3 Tasks such as output instructions and maintenance can also be performed by following on-screen instructions.

The AccurioLabel 190 is a digital label printer that offers high productivity, image quality, operability and economy, is a **“Perfect Fit”** for new market expansion and parallel use with existing analog machines.

Users to whom AccurioLabel 190 is recommended

Small to
Medium Volume

Small to medium-size label and seal print companies who take on orders for local brand work

Food and beverage products (e.g. event-related goods, souvenirs such as local wines, jams, ham and cheeses), cosmetics, beverages (small lots for events), local household detergents that use packaging film, and so on.

The AccurioLabel 190 can be used for a variety of applications

Gradations

Abundance of gradation expressions to achieve a natural finish.



Photographic image quality

Realisation of stable, high image quality by multi-gradation data processing and an expansive color gamut.



Thin-line expression

Thin lines in complex line images are also faithfully reproduced at a high resolution of 1200dpi.



Variable printing

Content can be changed for each sheet, effective for lot number changes or creation of original labels, for example.

lot N° 02052

lot N° 02053

lot N° 02054



Small-point characters

Small characters are also vividly printed to ensure ease of reading.



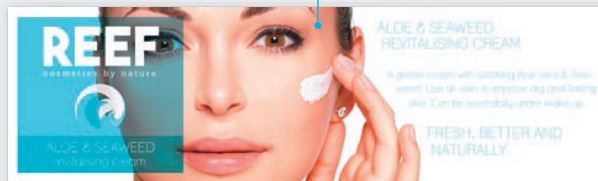
Barcode printing

Small barcodes can also be printed without blurring. Variable barcodes can also be printed.



Reproduction of skin tones

Roughness of the skin can be suppressed to reproduce richly-textured human skin tones.



Solid density

Solid black areas with high image density can be expressed with a suitable glossy appearance.

From samples to full production of small to mid volume labels for various markets

Liquors



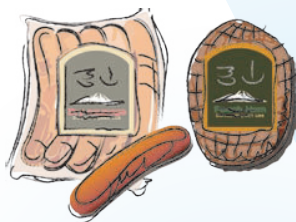
For locally produced wine, beer, sake, etc.

Beverages



For PET beverage bottles for events, meetings, etc.

Food



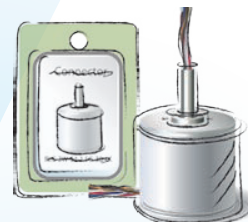
For locally produced jams, sausages, hams, cheeses, etc.

Household products



For private brand samples, local brand products, etc.

Industrial Products



For GHS labels for specified chemicals, name plates for limited-quantity products, etc.

Cosmetics



For cosmetics samples, private brand products, local brand products, etc.

Medicines



For medical drugs, prescription drugs, etc.

Label substrates

• Glossy or matte art paper

Food (locally produced jams, sausages, etc.), beverages (wine, sake) and sundry goods (event goods, mementos, etc.)

• YUPO®, PET, PP, etc.

For cosmetics, medical drugs, industrial products, beverages.

Small to medium volume market

The toners of AccuriosLabel 190 are in compliance with FDA standards by the evaluation of the authorised organisation considering the safety of indirect food packaging labels.

*The FDA standard is stringent safety standards to the potential product that consumers are in contact with food, pharmaceutical and cosmetic by FDA (Food and Drug Administration).

Achieves high image quality and productivity thanks to our cutting-edge digital print technologies

High image quality and high-precision printing

Multi-gradation Data Processing at a high Resolution of 1200dpi x 8bit

High resolution of 1200dpi produces a high-precision finish. Combined with the reproductive capability of digital toner HDE, small characters and fine lines can be printed clearly and color images beautifully output in rich gradations.

- **8bit/256-gradation processing**

Colour and monochrome are processed at a resolution of 1200dpi x 8bit with 256 gradations expressed in 1 pixel.

- **“S.E.A.D” – Image Processing Technology to meet Sophisticated Needs**

Furnished with an even more evolved “S.E.A.D.” – Konica Minolta’s unique image processing technology. High-precision image processing is performed in close linkage with the image formation process, achieving a high-dimensional fusion of “productivity,” “image quality” and “stability” and producing high image quality by taking optimum advantage of the engine characteristics.



CLEAR PRINT QUALITY

Furnished with a precise outline processing function that reduces blurring and streaking to realise high quality even for color or outline characters. Characters on food or ingredients labels, for example that tend to be small, or barcodes can be printed clearly.



High Printing Speed

Realisation of production speed 13.5m/min for tack paper

Equipped to deliver top level speed and stable printing performance, the AccurioLabel 190 can reach speeds of 18.9m, 13.5m and 9.45m per minute, with the variation of speed dependent on the paper type that is selected. In addition, the fast startup after switching on the power enables reduction in setup time, enhancing output productivity.

For example - 8-up labels on A4 sheet capable to print 10,000 labels (263m) in approx. 25min (13.5m/min).



MAJOR IMPROVEMENT IN PRODUCTION EFFICIENCY

Digital printing requires no plate making, making it possible to improve the efficiency of the integrated flow from file reception to printing. In addition, high flexibility in designing and ease of colour control enable to handle reprinting of previously-output labels with speed. The ability to print no more than required volumes when needed also keeps inventory to a minimum.

Outstanding Operability and Maintainability

Colour adjustment and re-printing is much easier on the AccurioLabel 190 when compared to analog machines

Compared not only to flexography, but also liquid development and inkjet printers, the AccurioLabel 190 is easy to maintain. Tasks that take time on analog machines such as colour adjustments can be performed with ease on a digital machine. The ability to perform operations simply by following on-screen instructions makes it possible to operate the machine with little time needed for training.

- **Mouse-compatible Operation Panel**

The large 15-inch display adopted is easy to view and operate. The angle of the panel can be freely adjusted to suit the user and the easy-to-understand GUI and guide messages ensure high operability when making settings. A USB mouse can also be connected to improve operability.



COMPACT SYSTEM

Compared not only to analog printers, but also other digital printers of the same standard, the system offers the advantages of compact size. The space-economical design eliminates worries over the place of installation and makes it possible to increase work space.



High Media Compatibility

Allows use of labels in various applications

The AccurioLabel 190 is equipped with the new HDE digital toner to further improve image quality and conserve energy. The 3-dimensional hybrid structure which incorporates functional polymers provides high contouring performance for all types of media, resulting in natural textures. The lower fusing temperature also contributes to major reductions in power consumption.

- **Toner particles with a 3-dimensional hybrid structure**

Colourant

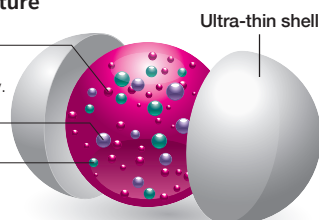
Improved red-gamut colour reproduction and colour-fading resistance. In addition, improved granularity enhances half-tone and skin tone quality.

Functional polymer





Produces high image quality, improves energy-saving performance and enables high-speed processing.

Sharp melt wax

Contributes to high image quality and improved energy-saving performance.



- **Blue Wool Test: The results according to ISO 105 B2 (lightfastness test).**

 Cyan	8*	 Yellow	8	<p>Remarks: The evaluation criteria is classified into 8 levels (1 to 8 levels), and the higher the value, the higher the lightfastness.</p> <p>*1 The test results indicate that the lightfastness of Cyan and Black toner is ranked as 8 or higher.</p>
 Magenta	6-7	 Black	8*	

Continuous Banner Size Printing

Capable of continuous printing of a maximum size of 1,195 x 320mm

The system is capable of continuous printing of sizes of a maximum length of 1,195mm and width of 320mm. The advantages of printing 1,195mm lengths enable not only printing of long panels, but also efficient imposition and printing of labels of differing sizes, realizing effective use of paper.



No need for printing plate

Provides flexibility for high-mix low-volume jobs at low cost

Unlike analog label print systems, The AccurioLabel 190 does not require plates to be made. This means that label printers will see a reduction in the waste generated from samples due to stable and precise output from the very start of the print job. In addition, label printers can also expect a reduction in labour costs thanks to a digital workflow which results in a reduction in production costs when compared to analog label print machines for small to medium runs.

FIXING CAPABILITY WITH HIGH RELIABILITY

Digital printing requires no plate making. Thanks to digital toner HDE and Konica Minolta's low-temperature fixation technology, the AccurioLabel 190 is compatible with a wide range of media including not only ordinary and matte paper, but also glossy paper, tack paper and film essential for label production. The user can not only select the ideal media to match applications but also print labels without the need for preprocessing.

*Some media types are incompatible.

WIDER PRINT APPLICATION THANKS TO THE BANNER PRINT CAPABILITY

As well as store decoration and floor POP displays, the system can be used for long posters, signboards and an extensive range of other applications. The ability to offer promotional proposals with media mixes combined with labels also contributes to business expansion.

REDUCTION IN TOTAL TIME

High-mix jobs such as printing information including items and control numbers on chemical product labels, for example. With analog machines, plates need to be changed frequently, resulting in reduced operating ratio and restricting the number of items produced. Digital machines, on the other hand, allow frequent job switchover, offer reduced work time and enhance the ability to meet required delivery time.

TECHNICAL SPECIFICATIONS

Print method	Dry-toner electrophotography
Colour support	Full colour (CMYK)
Printing resolution / gradation	1200dpi (3600dpi equivalent) x 1200dpi / 8bit
Max. printing image size	480 x 320mm at normal mode, 1195 x 320mm at banner mode
Paper width	330mm
Printed image width	Max. 320mm (maximum image quality-guaranteed width: 297mm)
Max. unwinder / rewinder diameter	ø 500mm
Paper thickness range	60 to 250µm
Feeding speed (printing speed)	18.9m/min., 13.5m/min., 9.45m/min. *Speed depends on the paper type (standard speed: 13.5mm)
Compatible file formats	PS, PDF (APPE compatible), 8bitTIFF
VDP file format	PPML, PDF-VT
Printing media *See the list below for details.	Paper: Non-tack paper, tack paper, Film: Tack film (synthetic paper, PP, PET)
Power requirements	Engine: Single phase 200V 22A 50/60Hz Roll feeder/winder: 3-phase, 200V, 4.1KVA 50/60Hz
Operating conditions	Temperature: 10 to 30°C, Humidity: 10 to 80%RH. No condensation. 20%RH gradually decreasing to 10%RH at 10 to 20°C. [Range of guaranteed performance] Temperature: 18 to 23°C, Humidity: 40 to 60%RH

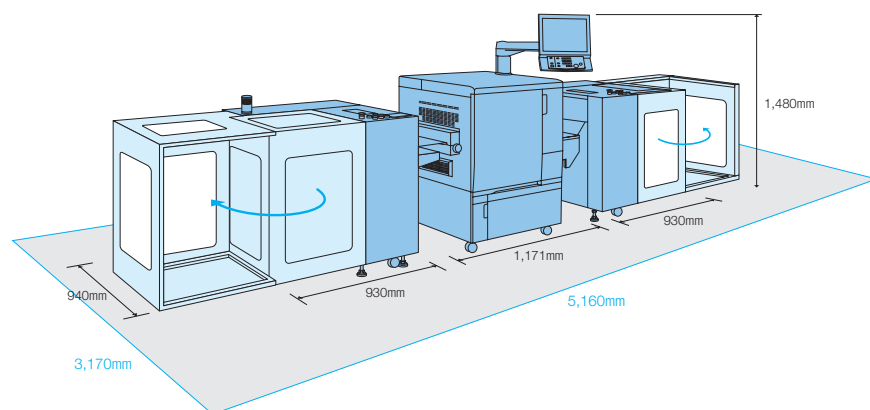
DETAILS OF MEDIA

MEDIA	NON-TACK PAPER	TACK PAPER (PEELING PAPER ONLY)
Plain	81 to 176gsm	136 to 256gsm
Gloss Coated Paper	81 to 176gsm (single side only)	136 to 256gsm
Matte Coated Paper	81 to 176gsm (single side only)	136 to 256gsm
SYnthetic Paper (YUPO® *3)	-	136 to 176gsm *2
PP	-	136 to 176gsm *2
PET (Stretched Type)	-	136 to 216gsm *2

*1: Incompatible depending on the media.

*2: Acrylic glue only.

*3: YUPO® is a registered trade mark of Yupo corporation



EXTERNAL DIMENSION, FOOTPRINT

Dimensions (W x D x H)	Main unit: 1,171 x 903 x 1,480 mm (operation unit included) Roll feeder/Roll winder: 930 x 940 x 1,480 mm
Footprint (W x D x H)	5,160 x 3,170 x 1,480 mm (operation unit included) Approx. 949kg (approx. 2092lb) (all units included) Printer engine: 297kg (approx. 655lb), Roll feeder: approx. 320kg (approx. 705lb), Roll winder: approx. 332kg (approx. 732lb)
Weight (W x D x H)	

AccurioLabel 190



*1 Optional

Product appearance, configuration and/or specifications are subject to change without notice.
This product is not available for some countries or regions.

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Requirements for safe use

- Please read and follow the instruction manual to ensure safe operation.
- Only operate using appropriate power supply and voltage.
- Connecting the earth wire to an inappropriate place may cause explosion or electric shock.
Please connect accordingly (Taiwan and the Philippines only).