

DTM LF140e and OKI Pro 1050 – the perfect solution for producing high-quality labels

DTM Print, international OEM and solution provider for specialty printing systems, offers with the new digital finisher DTM LF140e and OKI's Pro1050 Label Printer a complete solution for on-demand production of small and medium label runs.

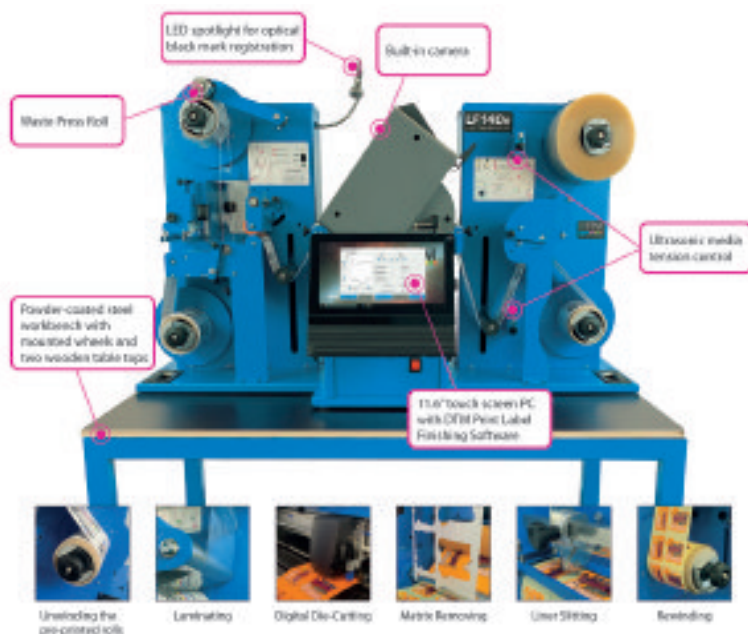
The DTM LF140e is a compact system for simple, fast and cost-efficient label processing on-site. It can be used to handle all the operations involved including unwinding the pre-printed rolls, laminating and digital contour cutting, waste matrix removing, slitting and rewinding the finished rolls. Noteworthy is the optical black mark registration through an integrated camera and LED spotlight, which guarantees an accurate repetitive precision even with complex cuts. With the integrated 11.6" touch screen all functions and processes can be controlled. Also included are numerous connections such as USB, Ethernet and also WLAN connectivity for accessing external cutting jobs.

The DTM LF140e offers manufacturers of high-quality product labels a number of advantages:

- **Borderless output:** the production of labels with full bleed has been a challenge up until now, as many roll printers do not support it. Now it is no longer necessary to pay attention to a precise label edge when printing in full bleed, nor is it necessary to set up a minimum distance between labels.
- **Time and cost savings:** producing short runs of labels in-house means reducing storage space and costs. There is also no need to order pre-cut label rolls.
- **Resistance of the labels:** lamination increases the durability of the labels. Any paper material, whether inkjet or dry toner based, can be coated, eliminating the need for special durable label materials.

Pre-printed rolls with a media width between 100 mm (3.94") and 140 mm (5.51") and a maximum roll diameter of 200 mm (7.87") can be processed making it the ideal addition for all types of roll printers, such as toner-based LED printer OKI Pro1050.

OKI's Pro1050 Label Printer is based on LED technology, can print in five colours (CMYK + W) and handles medium to large runs of colour labels on demand. With the unique fifth colour option "white", the Pro1050 sets new standards in creativity in its class.



Similar to laser printers the OKI Pro1050 uses a dry toner electrophotographic process to develop the image on a light sensitive drum which is transferred by electrostatic charge via an image transfer belt and fused by heat to the media. This technology produces labels that are waterproof and UV resistant.

In comparison to traditional laser printers, where the image is created by a rotating laser beam, the OKI Pro1050 uses static LED lines which means lower maintenance and longer lifetime cycles. LED print heads deliver a precise pixel setting for crisp and brilliant labels.

Print engines with LED technology require less space as there are no rotating parts or optics necessary, making the printer smaller, environmentally friendly and energy efficient, using significantly less raw materials in the manufacturing process.

The DTM LF140e comes to the customer as a completely assembled and pre-installed system. It sells for € 9,995 (MSRP) or in a particularly attractive package with the OKI Pro1050 at a price of € 23,495 (MSRP).

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▲ Oki's Pro1050 is a CMYK + white desktop label printing option

multiple service level options are available. The first machine resulting from the Rex programme is the Xeikon 3030 Rex, requiring an investment of level below €200,000.

Likewise, HP 'r' presses are used machines that go through a reconditioning programme, whereby the press is reconditioned at the HP Indigo factory and undergoes an extensive parts replacement and testing process. The press achieves print quality equivalent to a newly-manufactured press and comes with a factory warranty. The programme is part of HP Indigo's effort to reduce waste and minimise impact on the environment, and is said to offer a 'high-performance reconditioned Indigo press at an unmatched price'.

Small but mighty

Smaller, compact printers can also prove to be a less costly way into the market. Despite having a small footprint and being simpler to operate, don't be fooled into dismissing such systems. They can pack a punch and provide a perfect entry point into digitally printing labels.

Arrow Systems' ArrowJet Aqua 330R boasts an achievable 1600 x 1600dpi resolution, speeds over 45m/min and a wide colour gamut. The press is compatible with both pressure-sensitive label substrates and flexible packaging materials, giving commercial printers the flexibility needed in different markets and helping them address additional revenue streams. Moreover, the ArrowJet Aqua 330R uses water-based inks and features a stationary 330mm 'waterfall' printhead allowing for high speed, single-pass operation.

TrojanLabel systems, part of AstroNova's Product Identification business unit, provide similar capabilities. The T2 is a 1600dpi CMYK inkjet mini press designed for affordable high-volume label production. Print is at up to a bit over 18m/min, with a width from 50 – 224mm. The T4/T5 are all-in-one systems for more complete printing and finishing.

At the other end are QuickLabel desktop colour label printers, suited to in-house and on-demand production. From the QL-300, a narrow format, toner-based option, through to the QL-800 Wide Format, a high-volume, production-ready system using a CMYK inkjet engine to print at up to 18m/min with a maximum resolution of 1600dpi, various systems are available.

DTM Print's product range similarly extends from dye and pigmented inkjet options to dry toner CMYK + white, and thermal transfer printing with spot colours. The LX610e Pro combines CMYK thermal inkjet colour label printing at up to 4800dpi with a built-in digital die-cutting mechanism, with easy-to-use software for laying out print and cut files. Dye- or pigment-based inks can be used, depending on the application and end-use requirements – dye-based ink prints bright and vibrant colours for prime label applications, while pigment-based ink is more durable.

Oki's Pro1040 and Pro1050 offer print resolutions of 1200 x 1200 or 600 x 600dpi, a maximum print speed of just over 9m/min, and print widths from 21.16mm to 125.76mm. Whilst the Pro1040 uses a CYMK toner engine, the Pro1050 also runs white for five-colour digital label printing. The Pro1050 can further be combined with DTM's LF140e finishing system, a compact system for simple fast and cost-efficient label processing. It can handle activities including unwinding pre-printed rolls, laminating, digital contour cutting, waste matrix removal, slitting, and rewinding finished rolls.

For more on the opportunities presented by digital label and package printing to commercial printers, see *Digital Printer*, September 2020 (issue 125), page 42. **dp**