



Anapurna FB2540i LED

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Overview

The Anapurna FB2540i LED is a high-speed UV-curable inkjet system on a moving gantry flatbed. It is an ideal engine for both step-and-repeat work and for printing multiple jobs on differently sized media. Borderless printing avoids an extra finishing step, saving time and money. Thanks to the multilayer printing feature the Anapurna FB2540i LED prints several color and white ink layers in one run.

This engine delivers high-quality prints on practically any rigid and sheet material. White ink and six colors with 13 pl print heads allow it to deliver prints that will give you and your customers a competitive advantage. The high-density color printing function makes prints even brighter and more intense.

Key Benefits

- True flatbed with moving gantry
- High productivity
- Excellent print quality on sheets and rigids
- Six colors plus white (pre-, post and sandwich)
- Pin-point precision

Features

Solid frame

The Anapurna FB2540i LED's welded steel beam with its aligned rails, encoder strip, and servo motors allows flawless movement and perfect positioning of the print head shuttle.

UV LED lamps that save time, costs and the environment

The Anapurna FB2540i LED is fitted with air-cooled 16 Watt/cm² UV LED lamps, which results in a number of unique advantages related to generating extra business, cost savings and environmental friendliness. These include a wider applications scope, higher productivity and less power consumption.

[Read more about the unique advantages of LED technology.](#)

Perfect vacuum

The engine's vacuum bed design ensures extremely accurate and reliable dot placement. The bed contains almost 11.000 vacuum holes and is divided in 2 separately controllable table zones with each 4 vacuum compartments, so that you can print differently sized media without having to tape off the whole vacuum bed. This design also allows you to use separate parts of the bed for different jobs in the same print run and still maintain a perfect vacuum. The vacuum can be reversed to aid lifting of large substrates after printing.

Retractable media register pins

Automated retractable media register pins (7 horizontal / 4 vertical) perfectly position the substrate to facilitate accurate double-sided printing.

Ionization bar

An ionization bar mounted on each side of the carriage removes electrostatic loads on the substrate, ensuring optimum ink droplet control.

Shuttle safety sensors

Although the revolutionary vacuum system holds the media very straight, a set of shuttle safety sensors on either side of the print carriage protects the valuable print heads by preventing them from hitting the media in case of irregularities.

Welded steel beam

The welded steel beam with its aligned rails, encoder strip, and servo motors allows flawless movement and perfect positioning of the print head shuttle.

Advanced GUI design

The advanced GUI design fully supports the different white ink application features.

Applications

The Anapurna FB2540i LED can print on practically any rigid and sheet material. It delivers exceptional print quality on a wide variety of indoor and outdoor media and uncoated rigid media such as corrugated boards, rigid plastics, plexiglass, mirrors, exhibition panels, wood, aluminum, MDF, stage graphics and advertising panels.

With the Anapurna FB2540i LED you can attract new business with a wide variety of applications: banners, posters, signage, displays, exhibition graphics, POP & POS, mock-ups, backlits, frontlits, self-adhesives (labels). Also niche applications: DVDs, wood, art reproductions, personalized objects, party gadgets, as well as architectural and interior decoration, ceramics... Because any material up to 4.5 cm thick can be printed with the Anapurna FB2540i LED, the possibilities are endless.

Inks

Wide color gamut, high durability

Anapurna UV inks (CMYK Lc Lm + white) dry fast and produce a wide color gamut, enabling the use of a wide variety of materials. Their great adhesion properties and high durability result in long-lasting images that are resistant to outdoor conditions, including temperature or humidity fluctuations. Agfa's durable inks let you cut prints without damaging the image, giving you a clean-cut print every time.

White inks with high opacity and low ink coverage

White ink is ideal to print on darker substrates or transparent media, as well as on backlit and frontlit materials. When used as a spot color, it can highlight certain areas of an image. Due to the accuracy of the flatbed, pre-, post-white and sandwich white can be printed concurrently. The Anapurna's use the latest generation of Agfa-made white inks, offering high opacity at low ink coverage due to its large amount of pigments. Characterized by low sedimentation, the new white ink also avoids clogging of the print heads. The separate white ink circulation system automatically stirs the ink at regular intervals to ensure that it is always in the best possible print condition.

Technical Specs

Media & Printing Specifications - Rigid media	
Maximum width	2.54 m (8.33 ft)
Maximum length	1.54 m (5.05 ft)
Minimum size	DIN A4 (11.7 x 8.26")
Thickness	Min. 0.2 mm (0.008") - max. 45 mm (1.77")
Maximum weight	100 kg on printing table, evenly distributed
Borderless printing	Up to 2.535 m x 1.535 m (8.32 ft x 5.03 ft)
Media & Printing Specifications - Flexible media	
Maximum width	2.515 m (8.25 ft)
Maximum length	1.505 m (4.94 ft)
Minimum size	DIN A4 (11.7 x 8.26")
Thickness	Min. 0.2 mm (0.008")
Borderless printing	Up to 2.535 m x 1.535 m (8.32 ft x 5.03 ft)
Borderless printing flexible media	316 cm (10.3 ft)
Productivity	
Draft mode	Up till 96 m ² /h (1034 ft ² /h)
Express mode	59-73 m ² /h (635-786 ft ² /h)
Production mode	31-49 m ² /h (334-527 ft ² /h)
Standard mode	18-27 m ² /h (194-291 ft ² /h)

High-quality mode	15 m ² /h (161 ft ² /h)
High-definition mode	7 m ² /h (75 ft ² /h)
Media	
Media types	Reinforced vinyl, pressure-sensitive vinyl, canvas, fabrics, foam board, corrugated board, lenticular, tile, drywall, glass, sheet metal, paper and more
Print Heads & Inks	
Print heads	6 Konica-Minolta KM1024i high-frequency color print heads: 1024 nozzles/head with a droplet volume of 13 pl 2 Konica-Minolta KM1024i high-frequency white print heads: 1024 nozzles/head with a droplet volume of 30pl
Inks	6 Anapurna LED curable inks (CMYKLcLm) 1 Anapurna white LED curable ink
Image & Text Quality	
Prints high quality	Up to 720 x 1440 dpi
Text quality	Positive 4 point, negative 6 point
Engine Weight & Dimensions	
Flatbed printer dimensions (W x H x L)	4.95 x 1.6 x 2.6 m (16.24 ft x 5.25 ft x 8.53 ft)
Flatbed printer weight	1866 kg (4114 lb)
Electricity & Compressed Air	
Electricity	<ul style="list-style-type: none"> 380V - 415 V 3-phase star connection with Neutral wire (3x 30A)

	<ul style="list-style-type: none">• 208V - 240V 3 phase, no neutral with ground (3x 30A)
Compressed air	Min 6 bar
System Integration RIP / Workflow Software	
Asanti, third-party rips	

Availability

North America

Available in this region

South America

Available in this region

Europe

Available in this region

Asia

Available in this region

Africa

Available in this region

Oceania

Available in this region