Anapurna H2050i LED

High-speed hybrid UV LED-curable inkjet systems with a printing width of 2.05 m for indoor and outdoor applications.

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The wide-format hybrid Anapurna H2050i LED is a perfect fit for sign shops, digital printers, photo labs and mid-size graphic screen printers that want to combine board and roll-to-roll print jobs. The 6-color engine prints at a width up to 2.05 m and combines high quality with high productivity for outdoor and indoor, rigid and flexible wide-format jobs. It is equipped with UV LED lamps, enabling you to print on a wider media mix and to save energy, costs and time. The white ink function creates possibilities for printing on transparent material for backlit applications or for printing white as a spot color. With the automatic board feeder, productivity is increased even more.

Reliable workhorse

Featuring a robust and industrial engineered concept fit for sustained higher workloads, and incorporating the latest generation of fast-firing print heads, the hybrid Anapurna i-series with UV-LED curing offers a high throughput while also achieving a high level of print quality. At maximum speed you will be able to maintain a high print production on all your substrates, satisfying your most demanding customers. Borderless or multiple boards printing increase productivity even more.

A wide range of applications

The Anapurna H2050i with UV-LED curing adds more versatility to your business as it expands your range of applications. It produces top-quality prints on uncoated rigid media, such as corrugated boards, rigid plastics, exhibition panels, stage graphics and advertising panels, as well as on roll media such as film, vinyl and paper, banners, canvas and coated textile. It can also be used to print niche products such as wood, DVDs or personalized objects, or to create architectural and interior decoration.

The use of specialty inks and the little heat generated by the LED array passing over the substrate allows you to print a wider range of materials. As a result, the engines can print on thin heat-sensitive styrene as well as everything from foils and laminates to coated paper, PET, fluted polypropylene, soft foam boards, or industrial film.

Top quality

Thanks to a reinforced belt drive and shuttle beam, the Anapurna H2050i LED printer brings a highly accurate dot positioning and thus excellent image quality, which is further enhanced by the gradient and multi-layer functionality. The eight 12 picolitre heads guarantee printing of good solids, fine text reproduction of up to 4 pt, good tonal rendering and low ink consumption.

Multiple board and automatic board printing

The printer can have an automatic board feeder added in order to increase productivity substantially. This optional table provides an automated solution for volume printing of small board sizes — up to 4 boards can be printed in parallel. The borderless printing feature makes post-finishing superfluous.

In-store communications − bache

In-store communications − forex
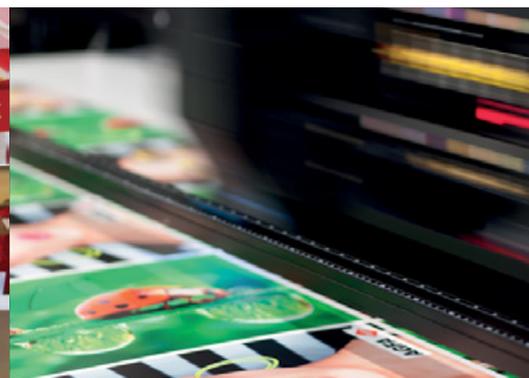
UV LED.

The hybrid inkjet systems are equipped with powerful, 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:

- Thanks to the minimal heat output, a printer using UV LED-curing can print on a wider media mix, and in particular on more heat-sensitive substrates without warping or wrinkling. Less heat generation also means a very stable bi-directional calibration.

- LED lamps lead to faster operations and therefore higher productivity, as they can be switched on/off instantaneously, without degradation of intensity. There is no lamp warm-up time and no shutter open/close delay.

- LEDs last 10,000+ hours vs. 1,000 hours for mercury lamps, with a consistent output over their operating life. There is no downtime for changing lamps, nor are there consumable lamp costs. The lifetime of the UV LED lamps is in line with the lifetime of the printer.

- As LEDs have a maximum energy consumption of 1 kWh per module, compared to 4kWh per UV-mercury lamp, they lead to big power savings — from 8kWh per engine (constant consumption) down to 2kWh (when printing).

- As UV LED lamps contain no mercury, the need for disposal and the related costs are obviated.

- LEDs do not produce ozone gas that needs to be extracted by ventilation.

In-store communications — backlit

Store communications — self adhesive vinyl

Designed for the greatest possible

Ionization bars
Ionization bars mounted on the carriage remove electro-static charges on the substrate, ensuring optimum ink droplet placement.

Reinforced beam
Sees to it that the shuttle moves about flawlessly ensuring accurate dot placement.

ANAPURNA H2050i LED

Flawless media handling
Media loading is smooth and accurate thanks to automated features such as the media registration bar and head height adjustment. The automatically controlled vacuum system, consisting of four zones, delivers an equal vacuum during the printing process, whether printing roll or rigid materials. This ensures flawless media transport, giving accurate print results at all times.

Multiple board and borderless printing
Multiple board printing is possible to maximize your productivity even more. The borderless printing feature makes post-finishing superfluous. The printer can be equipped with an automatic board feeder for volume printing of small board sizes — up to four boards in parallel.

deployment and convenience.

Shuttle safety sensors
A set of shuttle safety sensors prevents print heads from touching the substrate and getting damaged.

LED lamps
The Anapurna H2050i LED is fitted with air-cooled UV LED lights, which provide huge energy savings compared to UV mercury vapor lamps. Due to the minimal energy output, they are ideal for thermally sensitive materials, e.g. thin slides, self-adhesive sheets or stretched ceiling materials made of PVC fabric.

Convenient operator interface
All settings are conveniently arranged in a powerful straightforward graphic user interface on a swivel-arm mounted touch screen. Printed files are being spooled, viewed and stored by an internal bitmap server with a HD of 1 TB for ripped images for fast spooling and secure transfer of big amounts of data.

Ink monitoring
During production the ink levels are monitored by the automatic ink refill system. The ink (re)filling system can be accessed easily, enabling a spotless refill of your ink containers. The white ink is managed by a fully separate system (circulation, under-pressure regulation and cleaning circuit). The tank containing it is equipped with a stirring mechanism to keep the ink properly mixed at all times.

BEST-IN-CLASS AGFA-MADE LED INKS IN THE MIX

Agfa Graphics' specially formulated LED inks deliver fast drying, a wide color gamut, and high color vibrancy, as well as consistent results. These inks — both white and color — bring high image longevity and outdoor resistance, making them the best choice for a wide range of applications. They can print on thin and heat-sensitive substrates, enabling you to handle more applications. On top of that, thanks to their high-pigment load, the ink consumption per square meter is low. This so-called 'Thin Ink Layer' technology saves costs and results in nicer looking prints.

RELY ON WHITE

The hybrid Anapurna LED printers work with Agfa Graphics' highly opaque white inks. This means you obtain a qualitative white output with low ink consumption on colored or dark substrates as well as on transparent material for backlit or backlit/frontlit applications. Alternatively, you can use white simply as a spot color. Also, as the print heads can be divided up, the hybrid Anapurna LED printers have the possibility to run pre-, post-white or sandwich white in one production run, thus greatly expanding application possibilities.

Driven by Asanti
workflow software

Just like all wide-format printers from Agfa Graphics, the hybrid Anapurna LED printers are part of an integrated solution, including Agfa Graphics´ Asanti wide-format workflow software, which streamlines production processes, increases productivity and maintains consistency across the board. Asanti removes the hit-and-miss elements of print production so that you can integrate all of your pre-press elements and the result is a fully accountable end-to-end quality management solution. Say goodbye to errors and costly remakes.

Accuracy and consistency

The huge variety of file types to be handled significantly slows down the processing of print jobs and often leads to errors. These difficulties are overcome with the Asanti software. As the print settings for different media are stored in a database, Asanti is able to quickly call up the appropriate specifications and apply them. Rendering, image and color quality are automated, and Asanti checks files prior to printing, ensuring layers and transparency have been handled correctly, while flagging potential issues. By dramatically simplifying the task of the operator, reducing idle time and efficiently catching issues prior to printing, turnaround is reduced and productivity is increased.

New GUI

The Asanti GUI works with improved visualization of the job layout and positioning: operators can see exactly what they are printing. Extra accuracy is provided through the bi-directional communication with the Jeti Tauro printer. All the necessary production parameters that were specified during job preparation are picked up by the engine, thus avoiding potential mismatches between file preparation and output. The GUI offers access to key print parameters to make sure any last-minute changes are quick and easy to apply. Print progress and even printing time estimations are provided. This complements the autonomy of the machine beautifully, ensuring operators are not tied to the printer when other tasks demand their attention.
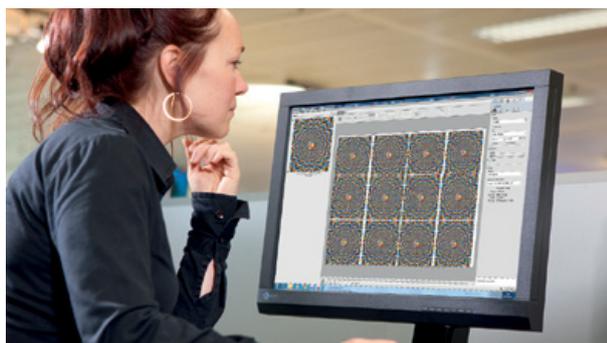

Asanti − more than just a RIP

Store communications − self adhesive vinyl

POP printing − wood & bache
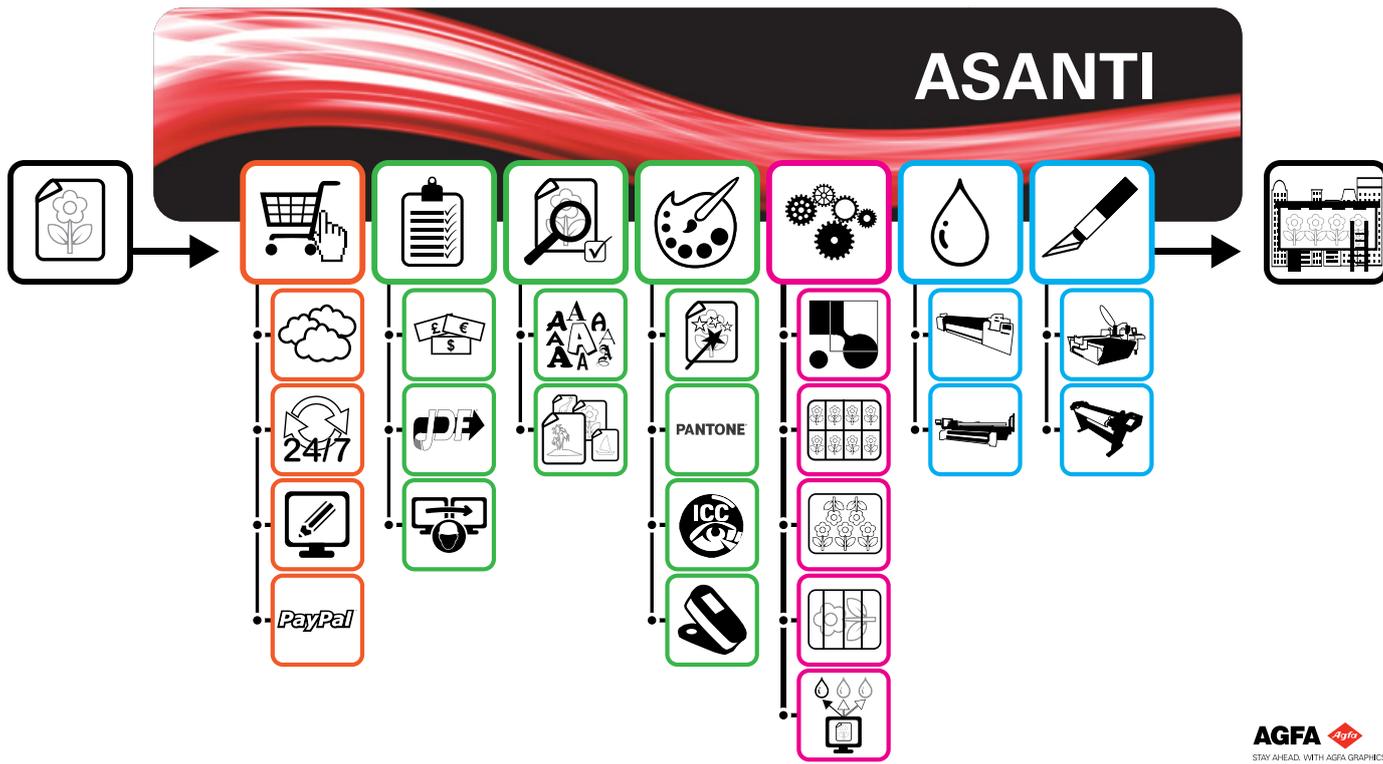
ASANTI

Asanti StoreFront

Asanti StoreFront, a comprehensive web-to-print service, is designed to handle incoming orders from the internet. Automated payment processing and error-free print preparation ensure new jobs are ready for printing in no time and with a minimum of operator intervention.

Asanti StoreFront web-to-print software

Art reproduction – wood

In-store communications – paper

Anapurna H2050i LED

Media & Printing Specifications

Rigid media

Maximum width	205 cm (6.7 ft) 200 cm (6.6 ft) with borderless printing
Maximum length	3.2 m (10.5 ft) – 4 rigid tables (2 rear & 2 front)
Minimum size	A2, landscape
Thickness	Minimum thickness: 1 mm (0.04″) Maximum thickness: 45 mm (1.77″)
Maximum weight	10 kg/m² on printing table

Flexible media

Maximum width	205 cm (6.7 ft)
Maximum length	n/a – restricted by weight and diameter
Thickness	Min. 0.2 mm
Maximum weight	50 kg (110 lb)
Maximum roll outside diameter	Support for 3″ core-media rolls with maximum outside diameter 36 cm (14.17″)
Borderless printing flexible media	200 (6.6 ft)

Productivity (For ABF dependent on size and number of boards)

Draft mode	Up to 104 m²/h (Up till 1.119 ft²/h)
Express mode	64-71 64 m²/h (689-764 ft²/h)
Production mode	32-52 m²/h (344-560 ft²/h)
Standard mode	19-28 m²/h (204-301 ft²/h)
High-quality mode	14-15 m²/h (151-161 ft²/h)
High-definition mode	8 m²/h (86 ft/h)

Print Heads & Inks

Print heads	6 Konica-Minolta KM1024i-heads: 1024 nozzles/head with a droplet volume of 12 pl (colors) 2 Konica-Minolta KM1024i-heads: 30 pl (white in line)
Inks	CMYKLcLm + white

Image & Text Quality

Prints high quality	Up to 720 x 1400 dpi
Text quality	Positive: 4 point / Negative: 6 point

Engine Weight & Dimensions

Printer dimensions (H x W x L)	169 x 458 x 154 cm (67 x 180 x 61″)
Weight	1800 kg (3968 lb)

Electricity & Compressed Air

Electricity	380 V 3-phase star connection with Neutral wire (3x 32A*) 50/60Hz 230V 3-phase delta connection without Neutral wire (3x 30A*) 50/60 Hz
Compressed air	Oil-free 5-30 l/min @6bar

System Integration RIP / Workflow software

Integrated production solution with Asanti, third-party RIP integration possible

AGFA *Agfa*
STAY AHEAD. WITH AGFA GRAPHICS.