



Hybrid Anapurna LED series

High-speed hybrid 6-color + white UV LED-curable inkjet systems with a printing width ranging from 2.05 m up to 3.2 m for indoor and outdoor applications.

UV LED



AGFA 

STAY AHEAD. WITH AGFA GRAPHICS.

Anapurna H2050i LED, H2500i LED & H3200i LED

The wide-format hybrid Anapurna i LED-series 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 engines print at a width up to 3.2 m and combine high quality with high productivity for outdoor and indoor, rigid and flexible wide-format jobs. The hybrid Anapurna's are 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. 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 i LED-series 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 hybrid Anapurna i LED printers bring a highly accurate dot positioning and thus excellent image quality, which is further enhanced by the gradient and multi-layer functionality. The six 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 Anapurna H2050i and H2500i 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 four boards can be printed in parallel on the Anapurna H2050i LED and up to five boards on the Anapurna H2500i LED. The borderless printing feature makes post-finishing superfluous.



Outdoor communication – vinyl



In-house decoration – tiles



Object printing – cardboard

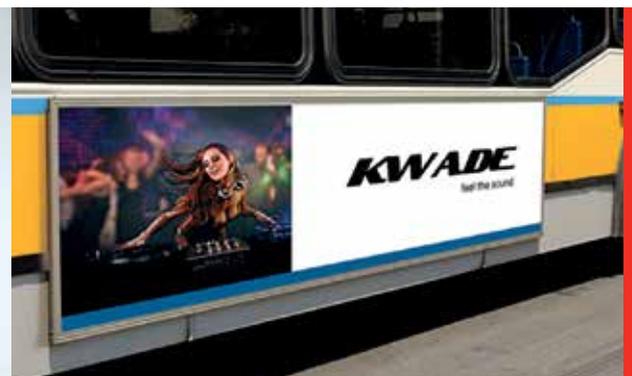
UV LED PRINT TECHNOLOGY

Equipped with powerful, air-cooled 16 Watt/cm² UV LED lamps for the curing process, the hybrid Anapurna LEDs come with a number of economical, ecological and business-generating benefits:

- LEDs are cool to the touch and have minimal heat output, which is why they allow for a broader scope of print applications. They enable you to print on heat-sensitive substrates such as thin slides, self-adhesive sheets or stretched PVC materials, for example. In addition, limited heat generation involves a very stable bi-directional calibration.
- LED lamps can be switched on and off instantly, without any degradation of intensity. That means there is no lamp warm-up time or delay for shutter motion. The result? Faster operations and higher productivity.
- LEDs last for at least 10,000 hours each – as long as 5 years, or a printer's lifetime. They generate a consistent output throughout that period with no lamp change downtime or any consumable lamp costs.
- LEDs have a maximum energy consumption of 1 kWh per module, which leads to significant power savings.
- As UV LED lamps don't contain mercury, there is no need for mercury disposal or any related costs. Also, LEDs don't produce ozone gas that needs to be extracted by ventilation.



In-house decoration – dibond



Outdoor communication – vinyl

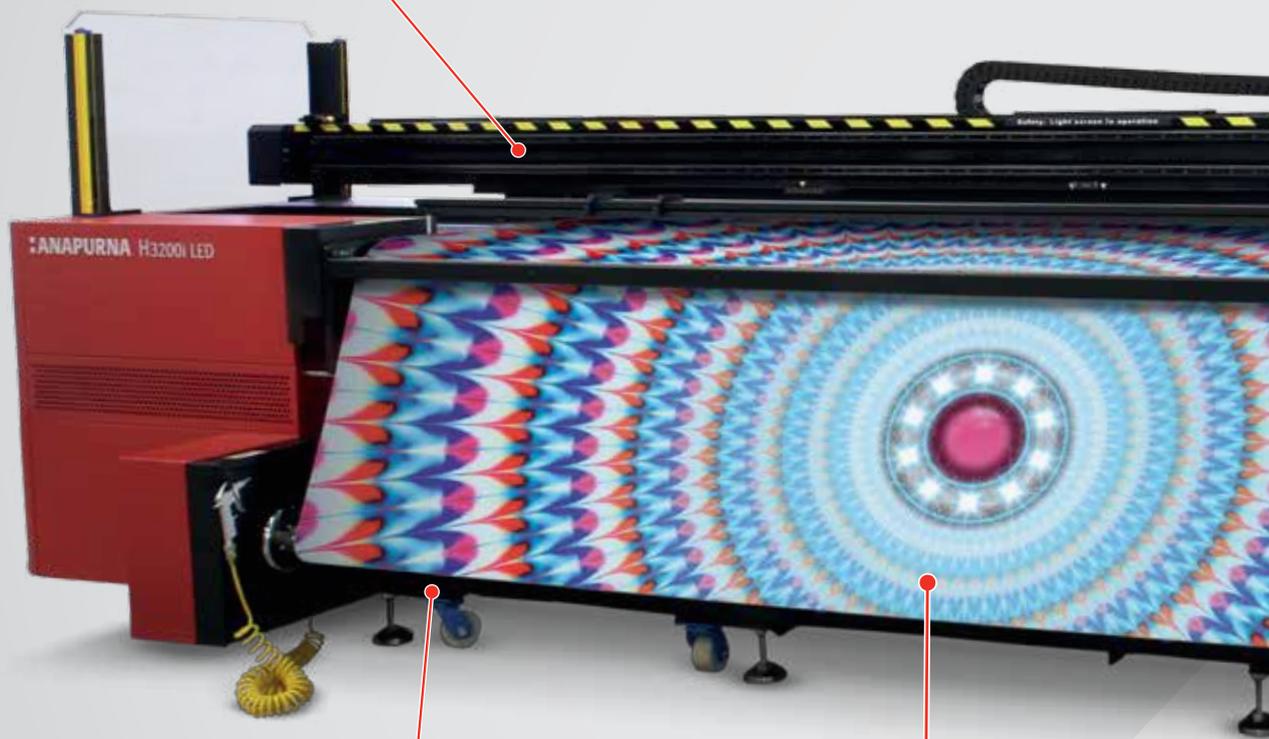
Designed for the greatest possible

Reinforced beam

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

Shuttle safety sensors

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



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 Anapurna H2050i and H2500i LED can be equipped with an automatic board feeder for volume printing of small board sizes—up to five boards in parallel (four for the Anapurna H2050i LED).

deployment and convenience.

Ionization bars

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

LED lamps

Air-cooled UV LED lights provide huge energy savings and are ideal for thermally sensitive materials due to the minimal energy output, e.g. thin slides, self-adhesive sheets, or stretched PVC materials.



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.

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.

Agfa Graphics inkjet inks – always spot on

Wide color gamut, no matter the medium

Agfa-made UV inks boast a wide color gamut and high color vibrancy in both indoor and outdoor applications. Providing outstanding adhesion – even on the most difficult substrates – these inks are your best option in terms of flexibility, image longevity and outdoor resistance. All of our UV inks – white and color – offer outstanding, stable jetting performance and deliver the same high-quality results, batch after batch.

Agfa's UV-curable LED inks: always spot on

Relying on LED technology, our specially-formulated UV LED inks can print on heat-sensitive substrates, thus broadening the scope of possible applications. They are both customized and versatile, developed with a view of the many different media they are intended for, as well as the specifications of different print engines. Our inks for flexible media, for example, are perfectly suited for stretchable and bendable materials.

Vivid prints, low ink consumption

Thanks to the high pigment load of our inks, ink consumption per square meter is the lowest on the market. This 'thin ink layer' pigment dispersion technology not only results in eye-catching prints; it also helps preserve the environment and saves on your budget. In short, these inks offer the best possible price/quality ratio.



Advanced white printing and white ink management

Printing on backlit media? Creating an opaque white background? Using white as a spot color? The hybrid Anapurna LEDs supports white printing in multiple modes (e.g. pre-white, post-white, sandwich white) on both rigid and roll media. The stirring functionality keeps the white ink in motion at all times. Constant recirculation flows along the ink lines – all the way to the temperature-controlled printer heads – limiting the risk of ink resetting and lines becoming blocked or clogged.



Outdoor communication – backlit



Outdoor communication – vinyl



Powered by Asanti

The Anapurna hybrid printers are driven by Agfa Graphics' Asanti wide-format workflow software, which controls the entire printing process from prepress to production and finishing. As such, it simplifies, optimizes and automates as many steps as possible, offering you a high-performance solution for increased productivity.

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 tackling issues prior to printing, turnaround is reduced and productivity is increased.

StoreFront

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.

Intuitive GUI

The Asanti GUI works with improved visualization of the job layout and positioning: operators can see exactly what they are printing. The GUI offers access to key print parameters to make sure any last-minute changes are quick and easy to apply. Job preparation takes place independently from the Anapurna operation due to the client-server infrastructure. This complements the autonomy of the machine beautifully; ensuring operators are not tied to the printer when other tasks demand their attention.



StoreFront web-to-print software

Integrable with PrintSphere

As a highly-advanced printer powered by Asanti, the hybrid Anapurna's integrate perfectly with PrintSphere, Agfa Graphics' cloud-based service for production automation, easy file sharing and safe data storage. This integrable cloud service offers a standardized way for print service providers to automate their workflows and facilitate data exchange with customers, colleagues, freelancers, other departments and other Agfa solutions.



In-store communication – forex



In-house decoration – dibond

Anapurna H2050i LED**Anapurna H2500i LED****Anapurna H3200i LED****Media & Printing Specifications****Rigid media**

Maximum width	205 cm (6.7 ft) 200 cm (6.6 ft) with borderless printing	250 cm (8.2 ft) 247 cm (8.1 ft) with borderless printing	320 cm (10.5 ft) 316 cm (10.3 ft) with borderless printing
Maximum length	3.2 m (10.5 ft) – 4 rigid tables (2 rear & 2 front)	Supported by 1 rigid roller table: 140 cm (4.59 ft) Supported by 1 rigid roller table + media extension table (default): 320 cm (10.5 ft)	
Minimum size	A2 landscape (60 x 42 cm – 1.97 x 1.4 ft)		
Thickness	Minimum thickness: 1 mm (0.04") Maximum thickness: 45 mm (1.77")		
Maximum weight	10 kg/m ² on printing table (22 lb)		

Flexible media

Maximum width	205 cm (6.7 ft)	250 cm (8.2 ft)	320 cm (10.5 ft)
Maximum length	n/a – restricted by weight and diameter		
Thickness	Min. 0.2 mm		
Maximum weight	50 kg (110 lb)		0.31kg (0.682 lb) per cm (0.4") roll width, meaning 100kg (220 lb) evenly distributed over the full 3.2 m (10.5 ft) width
Maximum roll outside diameter	Support for 3" core-media rolls with maximum outside diameter 36 cm (14.17")		Support for 3" core-media rolls – maxi- mum media roll diameter 30 cm (11.8") (larger diameter up to 50 cm (19.7") can be allowed within the distributed weight limitation, in case only print side OUT is used – both unwinder and winder)
Borderless printing flexible media	200 (6.6 ft)	316 cm (10.3 ft)	316 cm (10.3 ft)

Productivity

Draft mode	Up to 104 m ² /h (Up till 1,119 ft ² /h)	Up to 115 m ² /h (up till 1,238 ft ² /h)	Up to 129 m ² /h (up to 1,388 ft ² /h)
Express mode	64-71 64 m ² /h (689-764 ft ² /h)	70-78 m ² /h (753-840 ft ² /h)	77-87 m ² /h (829-936 ft ² /h)
Production mode	32-52 m ² /h (344-560 ft ² /h)	35-57 m ² /h (377-614 ft ² /h)	39-64 m ² /h (420-689 ft ² /h)
Standard mode	19-28 m ² /h (204-301 ft ² /h)	21-31 m ² /h (226-334 ft ² /h)	23-34 m ² /h (248-366 ft ² /h)
High-quality mode	14-15 m ² /h (151-161 ft ² /h)	16-17 m ² /h (172-183 ft ² /h)	9-19 m ² /h (97-205 ft ² /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	CMYKLCm + white		

Image & Text Quality

High-quality prints	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")	169 x 475 x 173 cm (67 x 187 x 68")	177 x 572 x 193 cm (70 x 225 x 76")
Weight	1,800 kg (3968 lb)	2,200 kg (4850 lb)	2,800 kg (6170 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 (class 1 according to ISO 8573-1 2010), 160 l/min compressor with 50 l barrel @6bar

System Integration RIP / Workflow software

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

www.agfagraphics.com

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