

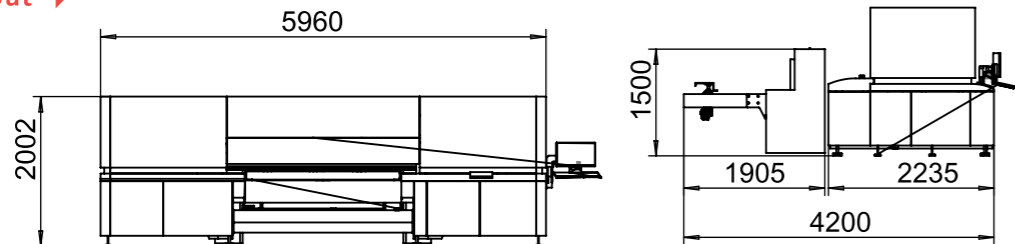
CETUS 2000

Product parameter list

Model	CETUS 2000
Technical specification	
Printhead type	RICOH Gen 6
Number of printheads	36
Color ink	C/M/Y/K/O/G
Color mode	Symmetrical color sequence
Color sequence	O/G/Y/M/C/K/K/C/M/Y/G/O (orange, green, yellow, magenta, blue, black)
Ink type	Water-based ink
Printing method	Scanning
Head Gap	Adjustable, up to 38mm
Media type	Corrugated paper
Belt width	2000 mm
Resolution	600×300dpi;600×600dpi;600×900dpi;600×1200dpi
System components	
Conveyor belt	vacuum belt
Printing software	POS
RIP software	Agfa Asanti
Board Loading mechanism	Automatic
Board Unloading mechanism	Automatic
Belt drift tracking	Automatic
Loading method	Singe sheet, Dual sheets
Ink supply method	Automatic ink supply
Degassing method	Degassed lung + ink circulation
Equipment specifications	
Equipment dimensions	6m (width) × 3.8m (depth) × 1.98m (height)
Equipment weight	4 tons
Total power	20kw
Advantages	
Vacuum belt table	
Automated Loading	
Belt drift tracking	
Symmetrical color sequence printing	
Linear motor	
Steel beam structure to reinforce stability	
Non-contact ink scraping	
Automated spitting	
Full servo motor control + PLC control	
Mobile collection unit + palletizer	

Product layout ▶

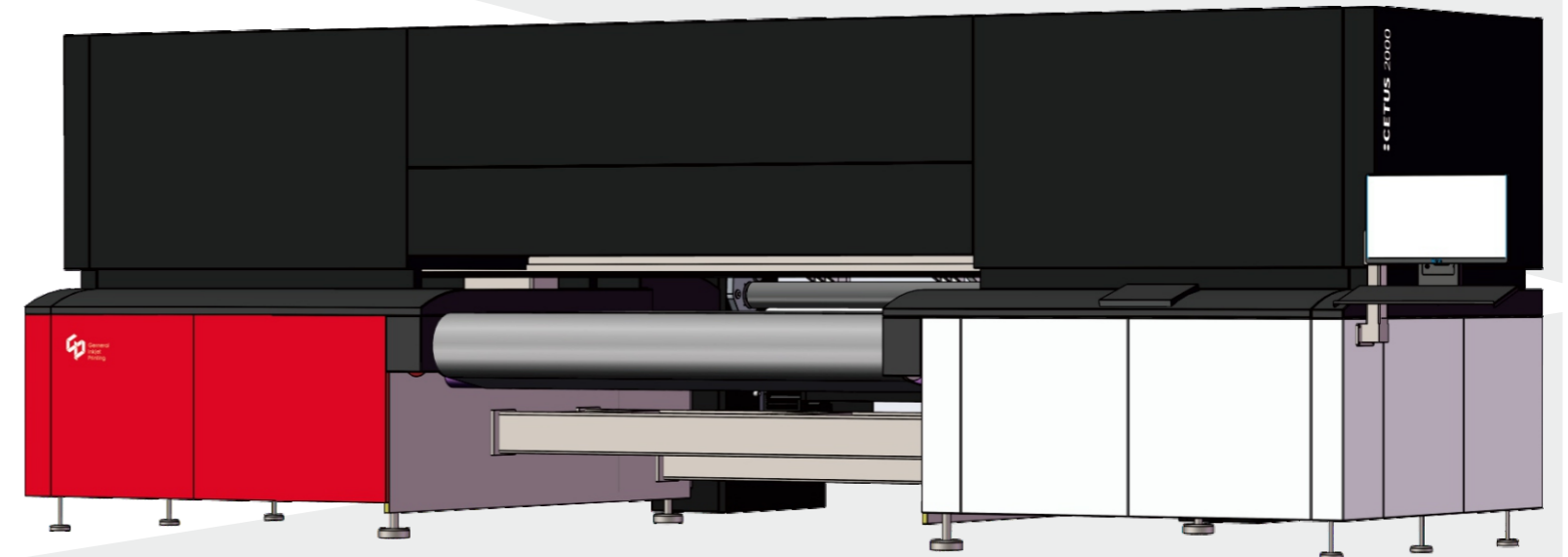
Unit : mm



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General Inkjet Printing: Digital inkjet printing system CETUS 2000

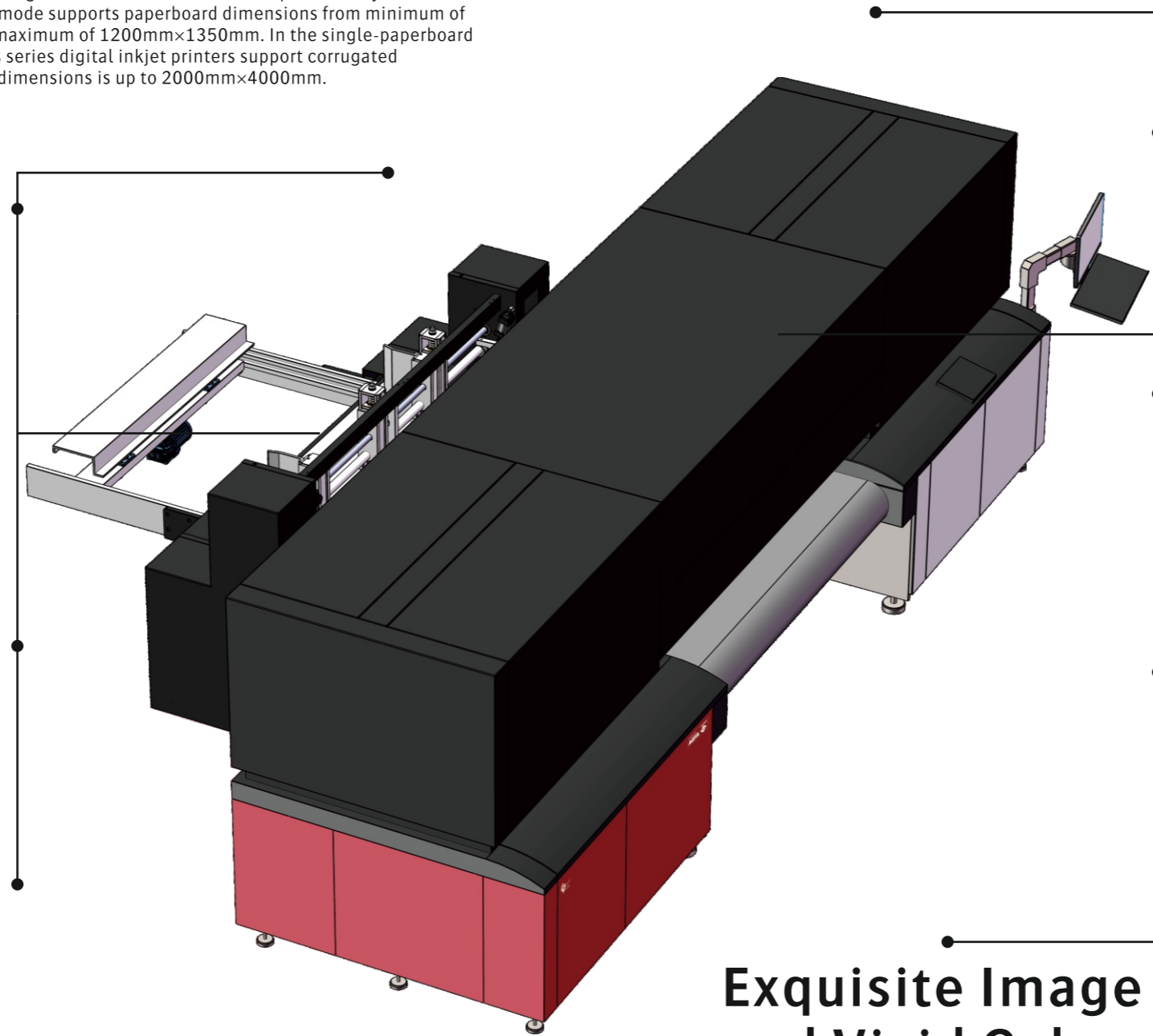
- + Dedicated inkjet printing system for corrugated papers**
Cetus series is industrial-grade inkjet printers developed for various carton and corrugated display applications. Cetus supports water-based inks for printing various corrugated paperboards such as coated paperboards; glossy paperboards; white and yellow cardboards.
- + Industrial-grade printheads with high efficiency and quality performance**
Cetus Series digital inkjet printers adopt industrial-grade piezo grayscale printheads with a high physical resolution of 600 dpi and a maximum printing resolution of 600 × 1200 dpi. Minimum ink droplet is only 5 pl. Super-high jet frequency presents excellent printing efficiency and impressive printing quality.
- + Economical and competitive**
As an economical and sustainable digital printing solution, Cetus series printers not only provide stable and consistent mid-and low volume printing quality, but also reduce product inventory and cost to boost competitiveness, making it a perfect choice for carton package printing companies.
- + Agfa Asanti digital workflow software**
With the latest APPE printing engine and Agfa's over 30 years of color management and workflow control experience, printing becomes simpler, more precise and more reliable.





Single/Dual Paperboard Printing Modes

Cetus series digital ink jet printers' dual paperboard printing mode supports two paperboards printing at the same time to increase productivity. In Dual Paperboard printing mode supports paperboard dimensions from minimum of 600mm×600mm to maximum of 1200mm×1350mm. In the single-paperboard printing mode, Cetus series digital inkjet printers support corrugated paperboard printing dimensions is up to 2000mm×4000mm.



Vacuum Belt driven Transport Unit

- ❶ Cetus series digital inkjet printers are equipped with a transport unit comprising of several vacuum belts that effectively absorb paperboards; precision servo control on belt movement.
- ❷ The vacuum system is consisted of eight individual control zones for positioning paperboards of different specifications and dimensions.
- ❸ Cetus series digital inkjet printer's media transport system support paperboards up to 2,000 mm in width, requiring much less manpower and time.
- ❹ Operators only need to load corrugated paperboard stacks onto the loading pallet for the transport unit to send the boards to the printing unit automatically. Printed paperboards are then being collected, prepared to be transferred by the pallet stacker.

Dual Roll Mechanism

Cetus series digital inkjet printers' dual-roller mechanism s hold paperboards securely onto the printing platform, ensuring steadiness of paperboards throughout the printing process to complete high-quality printing.

Automatic Deviation Rectification

The automatic deviation rectification function ensures consistency of printed zones and accuracy of die cutting.

Printhead Specifications

- ❶ Standard configuration is CMYK 4 colors, upgradable to CMYKOG 6 colors by added OG colors to expand the color gamut.
- ❷ Greyscale printheads are adopted with a minimum ink droplet volume of 5pl and a maximum printing resolution of 600x1200 dpi.

Smart Negative Pressure Control System

Smart negative pressure control system equipped with a digital pressure meter ensures high-quality printing of the industrial-grade piezo greyscale printheads at the maximum ignition efficiency.

Advanced Stable Printing System

Repeated pressurization and depressurization of piezo crystals inevitably cause air accumulation in inks. Cetus series digital inkjet printers adopt an advanced stable printing system that effectively prevents the formation of bubbles that impede nozzle performance to secure stable and reliable printing quality.

Automated Printhead Maintenance System

Adopts an integrated and compact structure design, to carry out major nozzle maintenance steps automatically, such as ink purge; wiping and capping to minimize nozzle damage risks and ensuring stable and reliable printing performance.

- ❶ Professional ink droplet volume control technology exhibits smooth transition, vivid image and small-font text with clear and sharp edges.
- ❷ ICC color management process ensures vivid and lifelike output, exhibiting exquisitely printed images on corrugated paperboards and presenting high-quality printed corrugated paper products.
- ❸ Cetus series digital inkjet printers support spot color printing with process color simulation or with spot color inks. When printing company logos and specific colors, this feature helps meet strict requirements from brand owners.

Exquisite Image and Vivid Colors

Powered by Agfa Asanti Application software



Cetus is managed by Agfa's wide-format workflow software Asanti, which controls the entire printing process from prepress to printing and post-processing. Complicated work process is being optimized into simply process automatically, this software provides a high-performance solution to increase productivity.

Superior Color Management and Workflow Software

Asanti's smart rendering helps optimize ink consumption, environmental friendly and reducing in cost. Asanti's fully integrated file processing, color management and preflight check functions ensure smooth and error-free operations before sending to corresponding wide-format output equipment. Asanti offers other possibilities, including customized production mode and production data reporting, to enhance controllability. Media profiles can be created to save print parameter for different print media, make it easy to switch between different print medias.

Printer Control Software

POS is a software specifically designed for scanning inkjet printing. POS has a user friendly interface for interactive printer control; printer status monitoring; printer configurations such as waveform amplitude, pulse width, printhead voltage and temperature. Cetus's POS process imported RIP data, and its software interface allows RIP software to send jobs directly to the printer. Control interface functions include printhead cleaning, printhead calibration, motor speed setup and printhead configuration etc.

Inks

Professional eco-friendly water-based inks for corrugated paperboards series are characterized by high color saturation; surface durability; waterproofing performance, and can be used for printing various type of corrugated paperboards such as coated paperboards, glossy paperboards, white and yellow cardboards.