

AdvancedJET AJ-1000 Wide Format InkJet Printer

Frequently Asked Questions

Q. How much is the AJ-1000?

A. The list price for the AJ-1000 is \$69,995

Q. What is the maximum size of the media that can be used with the AJ-1000?

A. The maximum width of the media that can be fed through the AJ-1000 is 104 inches. The maximum printable width is 102.36 inches. The maximum roll diameter is 9.8 inches and maximum core inner diameter is 3 inches. The maximum overall media weight is 220 pounds.

Q. What is the key sales message for the AJ-1000?

A. The AJ-1000 was designed from the ground up for production and ease-of-use. The combination of a super wide piezo head and the new Advanced Eco-Xtreme inks delivers a maximum print speed of 968 sq ft/hr. In addition to being fast, the new tri-heating and blower system make it possible to print at high speed on uncoated substrate and still use the integrated take-up roller system.

The one liter ink cartridges, along with an ink delivery system where ink cartridges can be replaced without pausing the printer, and robust media handling that can accommodate media weighing up to 220 pounds allow you to print unattended at high speed.

The Automated Intelligent Maintenance System, frees the customer from performing routine start up and end of the day maintenance without the risk of drying ink or clogging the print heads.

All of these features add up to make the AJ-1000 a truly high-production grand format printer with unheard of reliability and easy of use.

Q. What is the print speed per each print mode?

A. The AJ-1000 is capable of the following print modes and speeds:

Print Mode	Direction	Resolution	Pass	Speed (sq ft/hr)
Draft	Bi	360x180	1 Pass	968
High Speed (Bi/Uni)	Bi/Uni	360x360	2 Pass	484 / 322
Standard	Bi/Uni	360x720	4 Pass	258 / 172
High Quality	Bi/Uni	720x720	8 Pass	129 / 86

These speeds are for CMYKLcLm ink configuration

Q. What are the advantages of Eco-Xtreme inks?

A. The advanced Eco-Xtreme ink was specifically designed for AJ-1000 and it ships in liter cartridges with 1,000cc of usable ink. This new ink produces vibrant colors even at lower resolutions and offers superior bonding characteristic for banner substrates and excellent alcohol resistance.

Q. Does the AJ-1000 offer any bulk ink system?

A. The one liter (1,000cc) cartridge per color offers comparable yields of certain bulk ink systems available in the market. In addition, AJ-1000 has an internal reservoir of ink allowing the printer to continue the print while the cartridge is being replaced, thus allowing for higher production and less downtime.

Q. What is the ink consumption level?



A. Using the ISO N5A image for comparison purposes, ink consumption is approximately 0.75 ml/sq ft for banner and vinyl outputs and 1.40 ml/sq ft for high saturation backlit applications.

Q. What are the power requirements of the AJ-1000?

A. The AJ-1000 requires two 200-240V single-phase connection. The plug that ships with the printer is a 6-15p 250v/15A cable. Please refer to the AJ-1000 specifications for detailed information.

Q. Does the printer come standard with a take-up roller or is it optional?

A. The AJ-1000 comes standard with media feed and take-up rollers as part of the media feed system. The rollers are mounted at the front of the printer for more convenient media loading and can accommodate media weighing up to 220 pounds.

Q. Is it possible to use the take-up roller even when printing in the high-speed mode?

A. The dryer and blower that is part of the new Tri-Heater system on the AJ-1000 effectively accelerates media drying and makes it possible to use the take-up roller when printing at high speed with many substrates. As with any printer, results may vary due to ink saturation and media type.

Q. Does the printer require daily manual cleaning of heads, wipers and capping stations as the other solvent ink printers?

A. The AJ-1000 features an Automated Intelligent Maintenance System which performs the routine cleaning tasks automatically. The wiper is immersed in a cleaning liquid that is constantly renewed, preventing the build up of ink residue. In addition, the printer senses the room temperature and self-adjusts the cleaning cycle interval, keeping your printer always at optimal condition for operation.

As a result of this innovative maintenance system, manual cleaning around the head and capping station is only required every two weeks.

Q. What is the amount of ink and maintenance liquid used and how often is the automated cleaning performed?

A. A total of approximately 18cc of ink (3cc per color) is used for each cleaning cycle. The cleaning cycle is adjusted automatically depending on room temperature and it occurs more often at higher room temperatures. See below for a general guideline:

Room Temperature	59° F (15° C) and higher	81° F(27° C) and higher	95° F (35° C) and higher
Cleaning interval	24 hour	18 hour	12 hour

In addition, the amount of maintenance liquid consumed per maintenance cycle is 1 to 1.5 ml, which translates into approximately 1 cartridge (500ml) of maintenance liquid per year.

Q. What user precautions should I be aware of with the AJ-1000?

A. Recommended operating temperature is 68-86° F (20-32° C). It is recommended to check the installation space and floor load for the weight requirement of the printer (printer width is 14'2"and weight is 1550 lbs including the media).

The machine should be situated directly on a leveled surface for optimal performance. Also, a ventilation system is recommended for odor and VOC emission control if used in an enclosed environment. For more information refer to the AJ-1000 site survey.

Q. Is it possible to print on a variety of media?

A. Yes, the AJ-1000 will print on a variety of media including banner, adhesive-back vinyl, backlit film and mesh. We offer a variety of profiles for these types of media in the bundled VersaWorks RIP software.

Q. Can the AJ-1000 print on any kind of media?

A. It is possible for the AJ-1000 to print on a wide variety of uncoated media including standard calendared vinyl and a wide variety of banner material. As with any other printer, some media may work better than others and prior testing is recommended.

Q. Does the AJ-1000 ship with RIP software?

A. The AJ-1000 ships with Roland VersaWorks RIP and connectivity software. The latest version includes variable data printing and Roland Color™, a fully customized and integrated color matching system that revolutionizes the printing experience with a Roland device. These new features take complicated workflows and simplify them making them very easy-to-understand, even for those not familiar with high-end RIP software packages or color management.

Q. Is there a warranty with the AJ-1000 and how do I receive service for my printer?

A. The AJ-1000 comes with a Roland two-year on-site warranty. As with other Roland printers, the Roland Authorized Reseller responsible for selling the AJ-1000 will also be responsible for servicing it.

Q. What is the chief advantage of the AJ-1000 in comparison with other grand format printers?

A. While the AJ-1000 enjoys many unique production-related strengths, including super wide piezo inkjet heads, Advanced Xtreme inks, its media handling, Tri-Heating and Blower system, and Roland's legendary reliability, there is another major strength of the AJ-1000 that sets it apart from other grand format printers.

The AJ-1000 performs routine cleanings automatically and allows you to perform additional cleanings by push of a button for true clean-hands operation without generating excess trash or having to wear gloves. The only manual cleaning that is required is the wiping of heads and capping every two weeks. Most other grand format printers require a vacuum cleaner for cleaning while generating a lot of waste and mess for the operator on a daily basis.

At 968 sq ft/hour, the AJ-1000 is one of the fastest grand format printer in its category with the added benefit of ease-of use and lower maintenance.