Top DC Fan Manufacturer Expands Precision Cooling Solutions for Global Applications

SHENZHEN, GUANGDONG, CHINA, September 18, 2026 /EINPresswire.com/ --

As electronic equipment becomes increasingly compact and powerful, thermal management has become an important consideration across a wide range of industrial and consumer applications. Shenzhen Xinyujie Technology Co., Ltd. has developed its business around the research, development, and manufacture of cooling fans, providing DC fan solutions as well as AC, EC, and blower fan products. With manufacturing experience dating back to 2007 according to its official company profile, the manufacturer serves applications including 3D printers, accumulators, home appliances, inverters, greenhouses, medical equipment, and other electrical products.

DC fans are widely used to move air through electronic equipment and other systems where heat needs to be dissipated. Unlike AC fans, DC fans operate on direct current and can be designed for different voltage, speed, airflow, bearing, and control requirements. Shenzhen Xinyujie Technology Co., Ltd. provides multiple DC fan configurations, including DC axial fans, DC blower fans, and other cooling fan designs intended for different equipment structures and operating conditions.

The growing variety of electronic devices has created demand for cooling products in different dimensions and performance ranges. Compact devices may require small fans with controlled airflow and limited installation space, while industrial equipment can require larger fans capable of moving greater volumes of air. Xinyujie's product portfolio includes different sizes and configurations, allowing equipment designers to consider cooling components according to their available space and thermal management requirements.

The company's DC Fan product range includes models such as the XYE-6025-PWM, 12038BK-K High Speed DC Fan, 60X60X25MM DC Cooling Fan 24V 6025H24-K, and 12032 Blower Fan for 3D Printer. These products illustrate the range of form factors and applications covered by the company's DC fan portfolio.

For electronic equipment manufacturers, the performance of a cooling fan is determined by more than its physical dimensions. Parameters such as rated voltage, current, rotational speed, airflow, static pressure, noise, bearing configuration, and operating environment can influence the suitability of a particular fan. Shenzhen Xinyujie Technology Co., Ltd. states that it can

customize fan specifications according to customer requirements, including current, voltage, speed, airflow, bearing type, cable, and connector.

The company's Cooling Fan portfolio provides additional options for equipment manufacturers seeking specialized thermal management components. Its official Cooling Fan category includes 5V DC Cooling Fan, Waterproof DC Cooling Fan, IP68 DC Cooling Fan, High Temperature Resistance DC Cooling Fan, RoHS Material DC Cooling Fan, and 12V DC Cooling Fan products. Such variety reflects the different environmental and electrical requirements encountered in electronic and industrial applications.

Water and dust resistance can be particularly important when cooling fans are installed in equipment exposed to outdoor conditions, moisture, dust, or other environmental factors. Xinyujie's product range includes waterproof fan designs, with certain products described by the company as offering IP67 or IP68 protection. These products can provide equipment manufacturers with additional choices when designing cooling systems for more demanding environments.

Bearing selection is another factor that can influence the characteristics of a cooling fan. Shenzhen Xinyujie Technology Co., Ltd. offers both sleeve-bearing and double-ball-bearing configurations for selected DC axial fan products. The company notes that these configurations can differ in areas such as performance, service life, noise, and cost, allowing customers to select a structure based on the requirements of their equipment.

The company also develops fans with optional control and monitoring functions. Depending on the product, available functions can include PWM, tachometer, alarm, temperature control, reversing rotation, fireproof construction, and waterproof protection. These options can allow cooling fans to be integrated more closely with the control systems of electronic equipment.

PWM control, for example, can be used in applications where fan speed needs to be adjusted according to system requirements. Temperature-related control functions can also be incorporated into selected fan configurations. Such features are relevant to equipment manufacturers that need cooling performance to respond to changing operating conditions rather than relying on a fixed fan speed.

In addition to DC fans, Shenzhen Xinyujie Technology Co., Ltd. manufactures AC Fan products. Its AC fan portfolio includes AC centrifugal fans, AC cooler fans with sleeve bearings, 220V AC cooling fans, ball-bearing AC cooling fans, and metal AC cooling fans. This gives the company a product structure covering both direct-current and alternating-current cooling applications.

The availability of both DC and AC technologies can be useful for equipment manufacturers working across different electrical architectures. DC fans are commonly integrated into electronic systems supplied by direct-current power sources, while AC fans can be used in equipment designed around alternating-current power. Selecting the appropriate fan type requires

consideration of the electrical system, required airflow, installation environment, and other technical parameters.

Blower fans form another part of Xinyujie's product portfolio. Compared with conventional axial fan arrangements, blower designs can be used where airflow needs to be directed through a specific pathway or where the equipment layout calls for a different airflow configuration. The company offers DC blower fans for applications including 3D printers and other equipment.

The 3D printing sector is one of the applications specifically identified by Shenzhen Xinyujie Technology Co., Ltd. Cooling fans can be used within 3D printers for purposes such as equipment cooling and airflow management. The company's product range includes 12032 Blower Fan for 3D Printer and 40X40X20MM 3D Printer Blower Fan products, demonstrating its attention to compact equipment requiring dedicated airflow components.

Medical equipment represents another application identified by the company. Equipment used in medical environments can have specific requirements concerning dimensions, reliability, materials, and operating conditions. Xinyujie states that its fans are used in medical equipment, while its DC product information includes a 12V DC axial fan designed for medical equipment and lists certifications and protection options for that product.

Inverters and home appliances are also among the application areas listed by the manufacturer. Both categories can contain electronic components that generate heat during operation, making airflow and heat dissipation important elements of equipment design. The appropriate fan can help circulate air around heat-generating components and support the overall thermal management architecture of the equipment.

For manufacturers developing new products, customization can be an important consideration. Different equipment housings may require specific fan dimensions, connector arrangements, cable lengths, voltage levels, or airflow characteristics. Shenzhen Xinyujie Technology Co., Ltd. states that it provides OEM services and can assist customers with new product and mold development. Its customization services include product trademarks, shapes, and parameters.

Production capability is another aspect of the company's operations. According to its official information, Xinyujie currently has two fully automated production lines and four manual production lines, with annual production of approximately 12 million pieces. The company also states that its management system follows the IATF16949 quality certification system.

The manufacturer has also developed its international market presence. Its official company profile states that its foreign trade department was established in 2011 and that customers are located across Europe, North and South America, Asia, and the Middle East. The company states that its products have obtained CE, RoHS, and UL certifications and are mainly exported to markets including Japan, South Korea, Europe, and the United States.

Quality management is particularly relevant to cooling fan manufacturing because fans can operate continuously for extended periods depending on the application. Production consistency, motor assembly, balancing, bearing selection, electrical performance, and final inspection can all influence the operating characteristics of a finished fan. Xinyujie describes its production and inspection processes as part of its quality management approach and states that it follows the IATF16949 system.

The company's manufacturing activities also include equipment intended for more demanding environmental conditions. Its product portfolio includes high-temperature-resistant fans and waterproof fan designs, while selected products can be configured with additional protective functions. Such options provide equipment manufacturers with greater flexibility when developing products for environments where standard cooling fans may not meet the required operating conditions.

As electronic equipment continues to become more compact, thermal management remains an important part of product development. Fans need to fit within increasingly constrained spaces while meeting application-specific requirements for airflow, pressure, noise, voltage, speed, and protection. Manufacturers with a broad product portfolio can provide designers with more options when balancing these requirements.

Shenzhen Xinyujie Technology Co., Ltd. continues to expand its cooling fan portfolio around these requirements. Its product categories cover DC Fan, AC Fan, Cooling Fan, Blower Fan, and Radiator Fan, while its individual products address different voltage levels, sizes, bearing structures, environmental protection requirements, and control functions.

The company has also continued to introduce new cooling fan designs. Its website records a new-design private-molding DC Cooling Fan introduced in March 2026, indicating continued development of customized products within its DC cooling fan business.

From standard DC axial fans to specialized waterproof, high-temperature, blower, and AC fan products, Shenzhen Xinyujie Technology Co., Ltd. provides cooling components for a broad range of equipment. Its combination of product variety, customization capabilities, automated production, and international sales activities has positioned the company as an established participant in the cooling fan manufacturing sector.

About Shenzhen Xinyujie Technology Co., Ltd.

Shenzhen Xinyujie Technology Co., Ltd. specializes in the research, development, and manufacture of cooling fans. The company has been engaged in cooling fan manufacturing and R&D since 2007, according to its official company profile. Its product portfolio includes DC axial fans, DC blower fans, AC fans, EC fans, radiator fans, and other cooling fan products. The company's fans are used in applications including 3D printers, accumulators, home appliances, inverters, greenhouses, medical equipment, and other electrical products.

The company operates two fully automated production lines and four manual production lines, with annual production of approximately 12 million pieces. It provides OEM and customized services covering fan voltage, current, speed, airflow, bearing type, cable, connector, product shape, and other specifications. Selected fans can also incorporate functions such as PWM, tachometer, alarm, temperature control, reversing rotation, fireproof construction, and waterproof protection.

Its product range includes DC Fan, AC Fan, Cooling Fan, Blower Fan, and Radiator Fan. The Cooling Fan category includes 5V DC Cooling Fan, Waterproof DC Cooling Fan, IP68 DC Cooling Fan, High Temperature Resistance DC Cooling Fan, and other configurations. The company's AC Fan range includes centrifugal, sleeve-bearing, ball-bearing, metal, and 220V cooling fan products.

With an international customer base and products supplied to markets including Asia, Europe, the Americas, and the Middle East, Shenzhen Xinyujie Technology Co., Ltd. continues to provide cooling fan components for electronic and electrical equipment manufacturers. More information about the company, its DC Fan, AC Fan, Cooling Fan, Blower Fan, and customized solutions is available at [www.xyjfan.com].

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