

SD X40 Printer Components Explanation (English Version)

Watch the full video here: <https://youtu.be/knqVh7YZDJQ>

Printer Module

The printer module is the core of the SD X40 system, equipped with a high-resolution thermal transfer printhead, ribbon drive mechanism, and pneumatic cylinder. It supports 32mm or 53mm print widths and is suitable for coding on high-speed flexible packaging lines.



Controller

The industrial touchscreen controller allows users to edit print content, set parameters, and monitor system status. It supports multilingual interface, USB import/export, and real-time diagnostics.



Controller-to-Printer Connection Cable

An industrial-grade cable that transmits data and power between the controller and printer, ensuring reliable operation under demanding conditions.



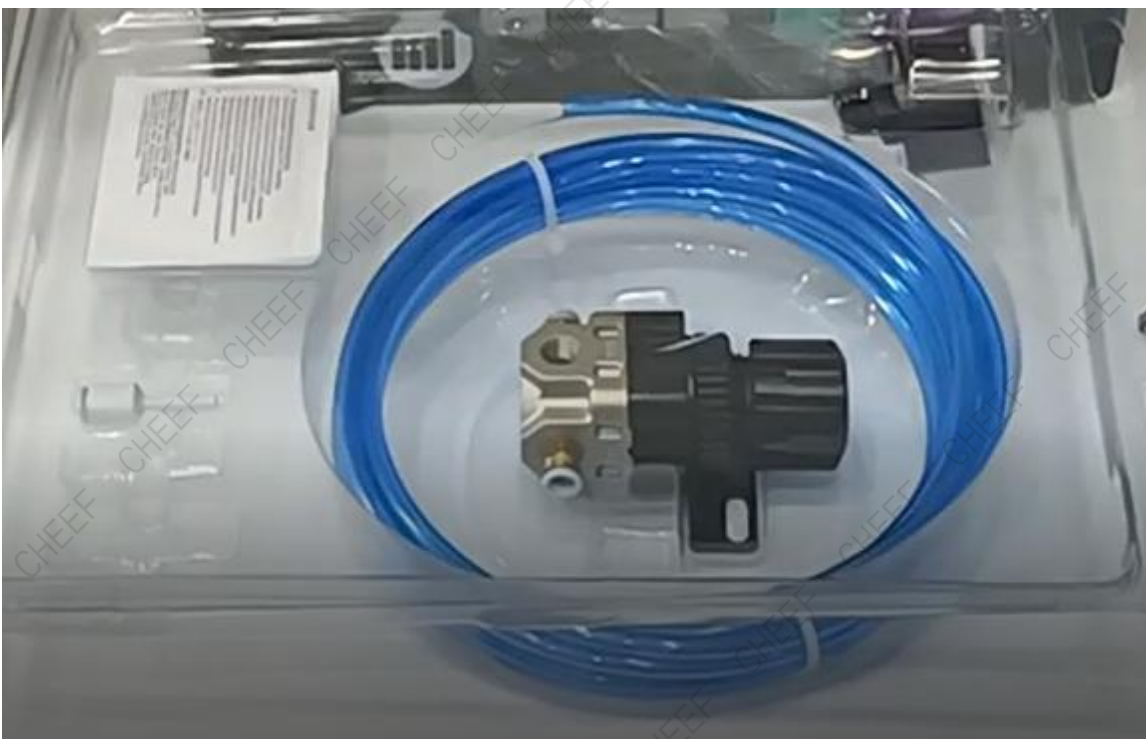
I/O Cable

Used for connecting sensors, encoders, and other external devices. Supports PLC integration for synchronized and automated coding operations.



Air Pressure Regulator

Ensures consistent pneumatic pressure (0.4–0.6 MPa) to the printhead for clean and stable impressions. Routine checks are recommended for the air filtration unit.



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Rubber Pad

Mounted beneath the printhead, the rubber pad provides shock absorption and printhead stability. Made of high-temp silicone, it should be checked every 3–6 months.



Test Ribbon

A 300-meter, 32mm wide wax-based ribbon is included for initial setup and testing. Users can switch to resin or mixed ribbons for specific packaging needs.



Power Cable

Supplies stable power (AC 100–240V input, 24V DC output) with anti-interference features and secure locking connectors for industrial reliability.



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