

TX-PD4060 Belt Conveyor Screen Printing Machine

Equipment Overview

The belt conveyor precision flat screen printing machine is a universal flat screen printing equipment. It is widely used for printing flat products including daily necessities, handbags, non-woven fabrics, leather, PVC sheets, glass, acrylic and more.

Notes: Flexible materials cannot be overprinted with layered patterns. Rigid products support secondary positioning for color overprinting, with printing accuracy of $\pm 1.5\text{mm}$.

I. Functional Features

1. Taiwan Fotek photoelectric sensors are installed at all detection positions to ensure accurate positioning and stable performance.
2. The conveyor worktable is equipped with an air suction device; the conveyor belt is driven by a servo motor for highly precise conveying distance control.
3. The scraper lifting mechanism adopts a gapless guide pillar structure, enabling smooth and lightweight movement to improve printing quality.
4. The left-right scraper travel is driven by a stepper motor with dual linear guides, meeting high-precision printing requirements.
5. The screen frame lifting system uses guide pillars for high precision and smooth, stable operation.
6. Machine overall dimensions: 19468961545mm, conveyor belt width: 600mm.
7. Programmable floating screen & fixed screen printing modes available upon customer request to greatly boost production efficiency.
8. Printing cycles (1-time or 2-time printing) can be arbitrarily set according to workpiece requirements, supporting fully automatic printing mode.
9. Stable performance: the whole machine is controlled by a PLC inverter program controller system.
10. Special shock absorption structure ensures ultra-smooth machine operation.
11. Touch screen operation panel with sensitive response and easy access to all screen printing functions.
12. Two preset functional programs available as required: single-cycle printing and full-automatic printing.
13. Brand-name pneumatic components deliver powerful, smooth and long-lasting power output.
14. All programmed function parameters are permanently saved after setup.

II. Technical Parameters

Item	Specification	Item	Specification
Model	TX-PD4060	Max Screen Frame Size	550*750mm

Effective Printing Size	350*550mm	Max Printing Height	80mm
Conveyor Belt Material	PVC	Screen Lifting Stroke	125mm
Conveyor Table Size	2000*600mm	Max Printing Speed	1500 cycles/hour
Air Pressure	4-6bar	Voltage & Power	220V, 1.3KW
Machine Weight	350kg	Overall Machine Dimension	19468901545mm

III. Detailed Component Display

1. Printing Table: Perforated vacuum adsorption PVC conveyor surface for stable workpiece fixing
2. Printing Scraper: Pneumatically driven scraper assembly with adjustable height and parallelism
3. Control Touch Screen (XINJE): Integrated operation interface with manual/automatic mode, parameter setting, monitoring and debugging pages; supports printing times, conveying distance, cycle time and suction fan control
4. Printing Servo Motor: XINJE servo drive for high-precision left-right scraper travel
5. Positioning Stop Bracket: Aluminum alloy adjustable positioning ruler for accurate workpiece alignment
6. Left & Right Screen Frame Clamps: Manual locking aluminum clamps with fine-tuning knobs to fix screen frames firmly
7. PLC Control Cabinet: Full electrical assembly with XINJE PLC, Delixi low-voltage electrical parts, switching power supply and terminal blocks
8. Beam Lifting Cylinder: Airtac pneumatic cylinder with dual guide pillars for stable screen frame lifting

IV. Standard Configuration List

Assembly Section	Item	Configuration Details
Basic Frame Structure	Machine Form	Vertical structure with belt conveyor
	Frame Body	Self-made welded steel structure
	Cross Beam	Self-made A3 steel plate
	Sliding Sleeve	Self-made aluminum alloy
	Linear Guide Shaft	HIWIN linear square guide shaft (Taiwan)
	Base	CNC machined cast aluminum base

Frame Lifting System	Lifting Drive	Airtac pneumatic cylinder
	Lifting Guide	Cylindrical guide rods
Printing Drive System	Printing Power	XINJE servo system
	Printing Guide	HIWIN linear square guide shaft (Taiwan)
Screen Frame Assembly	Screen Clamping	Manual aluminum alloy mechanical clamps
	Doctor Blade System	Airtac pneumatic cylinder drive
Worktable Platform	Vacuum Suction	Equipped with vacuum adsorption tabletop
Conveying System	Drive Mode	XINJE servo motor driven PVC belt conveyor
Control System	Main Controller	XINJE PLC full program control
	Low-Voltage Electrical Components	Delixi brand
	Pneumatic Components	Airtac solenoid valves & air filter regulator lubricator unit

V. Standard Delivery Package List

No.	Tool Name	Specification	Unit	Qty	Remark
1	Power Cable	Standard	pc	1	-
2	Foot Switch	Standard	pc	1	-
3	Phillips Screwdriver	Standard	pc	1	-
4	Adjustable Wrench	Standard	pc	1	-
5	Hex Key Wrench Set	Standard	set	1	-
6	Tool Storage Box	Standard	pc	1	-
7	Operation Manual	-	book	1	-

VI. After-Sales Service Policy

1. Technical support is provided for all factory-delivered equipment.
2. Free one-year warranty after installation and commissioning (excluding wearing parts and damage caused by human error); lifetime maintenance service available.
3. Regular customer site visits, on-site operation guidance and professional technical training are provided periodically.

After-Sales Service Coverage

1. Fault troubleshooting: Telephone technical support first; on-site service arranged promptly if remote solutions fail.
2. Full technical process support: On-site training for operators, complete screen printing process guidance and customized equipment solution design.
3. Regular follow-up visits to track equipment operation status.
4. Repair & maintenance services for screen printing machines and auxiliary equipment.
5. Custom R&D and manufacturing of special screen printing machines and supporting auxiliary equipment for customized printing products.

VII. Corporate Profile

Zhejiang Zechen Intelligent Equipment Co., Ltd. (Brand: TAOXING) is a professional manufacturer of screen printing machinery with standardized modern factory buildings, full production lines, independent R&D workshop and finished product warehouse. The company owns complete production, testing and packaging facilities to guarantee stable product quality.

VIII. Corporate Honors & Certifications

- Top Emerging Enterprise of China Screen Printing Industry
 - Potential Brand Award of China Screen Printing Industry
 - Alibaba Assessed Supplier
 - Made-in-China SGS Certified Supplier
 - Member Unit of China Screen Printing Industry Association
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