

TS Series Inkjet Digital Label Press Tianxuan TS-108/216/330

Model	TS-108	TS-216	TS-330
Print Technology	DOD piezoelectric inkjet Head		
Print Width	108mm	216mm	314mm
Ink	LED-UV curable ink		
Print Resolution	600x600dpi / 600x900dpi / 600x1200dpi		
Print Speed	Up to 50m/min(164ft/min)		
Number of Print Heads	4	8	12
Color	CMYK/ W / WW / V)		
Ink Tank Volume	3L per color		
Connectivity	Fast Ethernet		
Software and User Interface	Lable Print control software Print Factory /ONYX Rip		
Roll Diameter	Max.φ400mm	Max.φ600mm	Max.φ700mm
Core Diameter	76.2mm(3")		
Other Device	Corona Treatement/Dust removal/static electricity removal device		
Pre-Curing	LED(Air cooling)		
Final Curing	LED(Water cooling)		
Roll-fed Width	230mm	250mm	380mm
Material Type	Coated and uncoated paper、PP、PVC、BOPP、etc.		
Material Thickness	0.08-0.5mm(0.003-0.02")		
Working Environment	Temperature: 15-30° C(59-86F)		
	Relative Humidity: 40-60%(Recommended)		
Power Supply	Singal Phase 220V 30A	Three-Phase 380V 40A	Three-Phase 380V 50A
Air	6-8 bar,Clean and dry		
Main Dimensions (W x D x H)	2000X1300X1850mm	3300X1600X1850mm	3700X1880X1875mm
Machine Weight	1430kg	2400kg	2700kg



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Tianxuan TS-108/216/330 Digital Label Press

Unwinder

- Machine is equipped with electronic web guiding system for high accuracy feeding, and a 76.3mm(3") servo-driven unwind spindle with magnetic particle clutch.

Web Cleaner

- Ensures no material waste, no down time and stable printing by effectively removing dust including paper particles, powders and other visible particles.

Corona Treatment System

- Effectively pretreats the surface of substrates to increase the adhesion of inks.

Rewinder

- Utilizes a 76.2(3") servo-driven rewind spindle with magnetic particle clutch and closed-loop tension control system, supporting rewind diameter up to 600mm(23.6").

Roll-back system

- Double driver motor and accurate tension control system make sure the media can be roll back neatly.

Print position fine-tuning

- Position of the print module can be adjusted within full media region(380mm), it can be fine-tuning from control software but no need to adjust media.

Arc Tension Control

- Imported full servo drive ensures high-precision media transmission, reduces material stretching and deformation, is capable with more printing materials.
- Delivers accurate tension control and better droplet placement.

UV-LED Pinning Curing

- The ink dots are fixed before printing the next color to prevent dot expansion, thus obtaining bright and natural images and text and lines with clear edge.
- "Freezes" ink droplets to control dot gain before overlaying follow-up colors or doing a full curing.

Print Head Cleaning Module

- Automatic Ink Pressing, Ink Scraping, cleaning and light-proofing make it easy for users and maintain. Each color of ink can be cleaned individually, which prolongs the life of the printhead, avoids unnecessary ink waste, greatly saves production costs and improves printing efficiency.
- Allows full automatic purging, wiping and capping for convenient unattended operation.

Integrated ink supply and Negative Pressure system

- Important PLC Integrated ink supply, integrated negative control and other control systems and the negative pressure can reach $\pm 0.01\text{kPa}$. The 10-inch high-resolution HMI Operation Screen is easy to operate.
- PLC control ink supply and Negative pressure system.

Variable Data Printing

Machine support variable data printing, it specifically designed for industrial short-run narrow-format production. Integrated with advanced UV inkjet printing technology, it can be applied as labels, hangtags, tickets, RFID, foil packaging, etc.

Varnish/Foil module(Optional)

- Varnish ink printing provides versatile surface finishes with amazing tactile and visual effects to beautify the appearance of labels and grasp viewers' attention.

