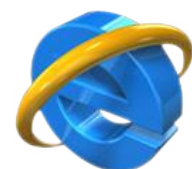


## LANGDE 740 Diaphragm pump



### Langde Technology Co.,LTD

- 32-bit embedded ARM structure
- High-speed 4-core CPU
- Internet remote monitoring
- One-button power on and off



# 740 Series inkjet printer ---Industry 4.0 latest products

## 740 Diaphragm pump small character inkjet printer



As a leader in the domestic coding & marking industry, Langde has always paid attention to market demand and continuously innovated in the field of marking. The LANGDE740 inkjet printer launched this time use Langde Scloud cloud service as the background platform, integrating customers and manufacturers, providing end-to-end, face-to-face and intimate services, and leading China's inkjet printer technology to leap forward with "cloud service". It adopts world-class advanced 32-bit ARM embedded structure and runs Linux professional operating system. It implements all-weather full-intelligent monitoring, remote service and upgrade. It has made great improvements in human-computer communication and intelligent operation. In the circuit, it adopts key technologies such as inkjet stability control and data protection for multi-faceted innovation and optimization design, and adopts the industry's advanced diaphragm pump four-pump integrated design in the ink path. It has powerful software editing functions and extremely high stability. It brings a more perfect marking experience to inkjet printer users in terms of product performance and application. It is an epoch-making product that perfectly combines technology and performance.

### Diaphragm pump four-pump integrated design

Adopting the most advanced diaphragm pump in the industry, the ink pump, solvent pump, recovery pump, and circulation pump are designed in one, eliminating the traditional gear pump and not requiring compressed air. Compared with the gear pump, it has the following advantages:

1. The service life is several times that of the gear pump
2. Using the research results of "bionics", it can work in a nearly zero-wear mode and the maintenance cost is quite low
3. The mechanical friction of the gear pump will not affect the ink, which can greatly extend the service life of the ink and reduce production costs.
4. Adopting the optimized ink path system design, the consumables consumption is only 10-20% of the traditional air source machine and 60-70% of the gear pump machine.

### Overall performance

- 32-bit embedded ARM structure
- Automatic nozzle cleaning
- Screen fault diagnosis display
- Online information editing
- Fully sealed integrated design of printhead (all-round printing)
- Work log record
- One-button power on/off
- Automatic ink line detection
- Automatic machine status display
- SD card/USB data information import
- Internet remote monitoring and upgrade
- WIFI wireless Internet access

### Operation interface

- 10.2 inch color LED screen
- Multi-level password protection
- Different types of information are displayed in different colors WYSIWYG
- Image graphic menu
- Startup language selection/with screen saver function
- Automatically display fault detection

### External extension

- Sd card
- USB interface
- RS232,RS485
- Ethernet

### Language

Chinese, English

### Specification

Weight: 27kg  
Nozzle main pipe: 3 meters

### Environmental requirements

Voltage: 85-265VAC, 50-60Hz  
Temperature: -10°C-45°C  
304 stainless steel chassis  
Protection level: IP55  
Humidity: 10-95%RH, non-condensing



# Private customization Personalized service Scloud cloud service creates a more perfect coding & marking experience

## Unique nozzle triple anti-blocking function

1. It has an independent cleaning pump. It automatically sprays solvent to clean the nozzle and the recovery pipeline every time it is turned off. When it is turned on, it automatically sprays solvent to clean the nozzle and the recovery pipeline before spraying ink.

2. The unique double-valve structure of the nozzle can ensure that the ink in the ink system can be thoroughly cleaned and returned to the ink tank, truly achieving full-automatic nozzle cleaning. It greatly reduces daily maintenance work and improves the stability of equipment operation.

3. The nozzle parts can be removed separately and placed in the ultrasonic cleaner to completely solve the blockage problem.



## Advanced ink viscosity automatic control system

Adopts advanced ink viscosity control system, and automatically adjusts, which is not affected by factors such as ambient temperature changes and the length of time the machine is turned on, so that the printer always maintains perfect printing quality. Viscosity control uses the method of detecting the movement time of the float, which is more accurate and reliable than other brands of inkjet printers that use the dripping time method to detect ink.



## Perfect digital circuit control system

Fully automatic digital display of each important parameter point in the circuit ink system, operating data and other important parameters can be adjusted digitally, so that the equipment operation status is clear at a glance. The automatic fault detection system automatically prompts through digital menus and signal lights, which can effectively eliminate faults in a timely manner.

## Powerful printing function

1. Supports editing other non-working information while the machine is working, and instantly switches the printing content.
2. Supports online anti-counterfeiting code printing and variable barcode printing.
3. Supports receiving BMP patterns compiled by the computer, can directly create special characters or patterns on the touch screen, and supports personal signatures.
4. It has special functions such as encoding synchronization, photoelectric synchronization, synchronizer synchronization and fixed distance, online one-time detection and multiple printing, multiple detection and one printing.
5. Users can set the counter step length, increment, decrement, cyclic printing, etc.

## Special harsh industrial environment

The machine adopts wear-resistant stainless steel chassis, IP55 protection level, and unique nozzle positive pressure wind function to resist the invasion of dust and water, suitable for use in various harsh environments.

It has a multi-channel ink system processing system and fault alarm display function to ensure that the machine runs more stably and is easy to maintain. The multi-controller output port is reserved, which can be used in conjunction with the customer's on-site equipment as needed.



# Standard function



Printing lines: 1-6 lines

Printing dots: 5x5 7x5 9x7 12x6 16x8 16x12 24x11 32x16 Self-edited information within 34 dots

Printing speed: 266m/min(5 dot matrix),258m/min(7 dot matrix),200m/min(9 dot matrix),113m/min(12 dot matrix),  
104m/min(16 dot matrix),36m/min(24 dot matrix),14m/min(34 dot matrix)

Operation interface: color touch screen, Chinese and English menu

Storage information: unlimited storage of printing information

Printing content: date, time, automatic date, automatic validity period, class number, batch number, serial number, four  
sets of counters, meter, self-edited pattern, variable barcode, anti-counterfeiting code, QR code,  
multiple languages, multiple fonts (support personal signature)

Printing length: any length

Chinese input: Pinyin input method, area code input method

Printing ink: black, blue, red, etc.

Printing height: 1~12mm (adjustable)

Printing distance: 1~30mm (adjustable)

Font widening: 1~9 times, can be widened for a single character

Font direction: normal characters, reverse characters, inverted characters, reverse reverse characters, the printing  
direction can be set independently for a single character

Font spacing: 1~8 times, can be edited point by point

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