

LANGDE® 500 Gear pump inkjet printer



Langde Technology Co.,LTD

- 01 Industry 4.0 intelligence
- 02 High-speed eight-core CPU
- 03 SCloud cloud service platform
- 04 Remote assistance • Upgrade



LANGDE[®] 500 Gear pump inkjet printer



Simpler operation, less maintenance, better printing quality, faster printing speed.

Designed for customers with medium to high frequency of use and medium to high speed production lines, it adopts advanced 32-bit ARM embedded structure, high-speed eight-core CPU running Linux professional operating system, and smoother operation. With the unique "SCloud cloud service" as the background platform, it provides end-to-end, face-to-face intimate service, and realizes all-weather full intelligent monitoring, remote monitoring, remote upgrade, private customization, and personalized service with one click.

It has powerful software editing functions and extremely high stability. It brings users a more perfect identification experience in terms of product performance and application.

GLOBAL COVERAGE WIDE APPLICATION



■ Food and drink ■ Building materials ■ Daily chemicals ■ Wire and Cable









Overall performance

- 32-bit embedded ARM structure
- High-speed eight-core CPU
- Remote assistance, monitoring, upgrade
- One-button power on and off
- Automatic nozzle cleaning
- Automatic ink line detection
- Automatic display of machine status, intelligent alarm
- Intelligent self-check of system hardware and software
- Work log record
- Fully sealed integrated design of printhead
- USB data information import
- Wired, wireless WIFI, mobile phone hotspot Internet access

Operation interface

- 10.1-inch color LED touch screen
- Image menu
- Multi-level password protection
- Start-up language selection/with screen saver function
- Fault detection and automatic display
- WYSIWYG

External extension

 USB	 Ethernet port
 RS232	 RS485
 Photocell input	 Encoder input
 Alarm output	 Multiple control output reserved

Language

Chinese	English	French	German
Korean	Vietnamese	Persian	Arabic
Turkish	Spanish	Portuguese	

Environmental requirements

Voltage: 85~265 VAC, 50/60 Hz
Temperature: -10 °C ~ 45 °C 304 stainless steel case
Humidity: 10~95% non-condensing

Scloud service

To create a perfect coding & marking experience

Unique digital network system

The cloud server SCloud, the "clairvoyance" system, continuously monitors and tracks the parameters of the inkjet printer. This allows users to proactively solve potential problems with the printer and ensure uninterrupted operation of the production line.

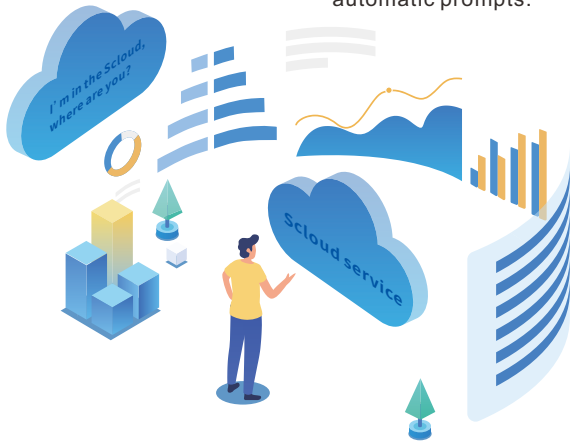


Instant remote monitoring

Built-in digital health monitoring system and intelligent alarm can remotely assist customers and predict potential problems to avoid them.

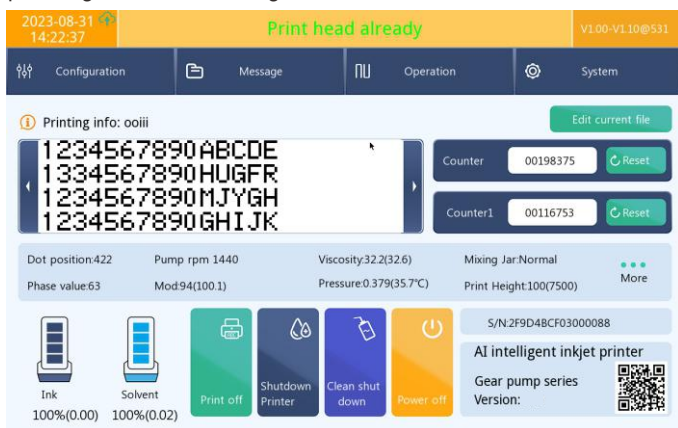
Instant APP notification

Assist customers to easily identify potential faults and send them to their mobile phones in a timely manner through modern communication tools for automatic prompts.



Fully digital smart menu system

It can fully automatically digitally display various important parameter in the ink system, operating and other important parameters, and can be digitally adjusted, making the equipment operating status clear at a glance.



Special harsh industrial environment

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

With multi-channel ink processing system and fault alarm display function, it ensures more stable operation of the machine and convenient maintenance. Reserved multi-channel controller output port can be used in conjunction with customer on-site equipment as needed.

Unique triple nozzle anti-clogging function

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

2. The unique four-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 fully automatic nozzle cleaning. Greatly reduce daily maintenance work and improve the stability of equipment operation.

3. The nozzle piece can be removed separately and placed in an ultrasonic container to completely solve the blockage problem.



Advanced ink viscosity automatic control system

An advanced independent viscometer is used to control the ink viscosity. The ink viscosity and ambient temperature are continuously monitored throughout the entire process and automatically adjusted in a closed loop. It 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.

Powerful printing functions

1. Other non-working information can be edited while the machine is working, and the printing content can be switched instantly.

2. Anti-counterfeiting code printing and variable barcode printing can be realized online.

3. It can receive BMP patterns compiled by the computer and can directly create special characters or patterns on the touch screen.

4. It has special functions such as coding synchronization, photoelectric synchronization, synchronizer synchronization and fixed distance, online one-time detection and N-times printing, N-times detection and one-time printing, reciprocating printing, multi-content selection printing, remote network printing, etc.

5. The counter step length, increment, decrement, cyclic printing, etc. can be set at will.



LANGDE[®] 500 Gear pump Small character inkjet printer

Standard functions

Number of printing lines: 1-5 lines (5x5 dot matrix)

Number of printing dots:

5x5, 5x7, 7x9, 6x12, 8x16, 12x16, 11x24, 16x32, Self-edited dot matrix information within 34 dots.

Printing speed: 253 m/min(5dot matrix)

246 m/min(7 dot matrix)

191 m/min(9 dot matrix)

107 m/min(12 dot matrix)

72 m/min(16 dot matrix)

28 m/min(24 dot matrix)

14 m/min(34 dot matrix)

Operation interface: 10.1 inch color touch screen, graphic menu.

Storage information: unlimited storage of printing information
(can be connected to external mobile memory)

Printing content: date, time, automatic date, automatic validity period, class number, batch number, serial number, four groups of counters, meter counting, self-edited pattern, variable barcode, variable QR code, anti-counterfeit code, multiple languages, multiple fonts.

Printing length: 1024 characters as standard (customizable)

Input method: Pinyin input method, area code input method, multi-language input.

Printing ink: black, blue, red, yellow and other colors of ink.

Printing character height: 1~25mm (adjustable).

Printing distance: 5~50mm (adjustable).

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

Font direction: normal characters, reverse characters, inverted characters, reversed characters,

Printing direction can be set independently for a single character.

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

Positive pressure air for nozzle: optional

Bar code

EAN 8 & 13; Code 128 A,B & C;

EAN 128; Code 39; Code 93; Interleaved 2 of 5

QR code(QR,DM)

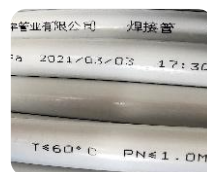
10×10, 12×12, 14×14, 16×16, 18×18, 20×20, 24×24, 34×34

Ink/Make-up Smart Cartridge

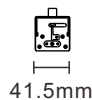
Ink Smart Cartridge: (500mL / 750 mL)

Make-up Smart Cartridge: (500mL / 750 mL)

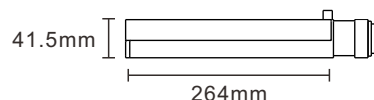
Provide you with the best solutions
for coding & marking



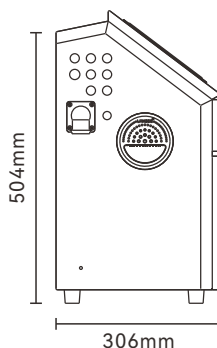
Printhead bottom view



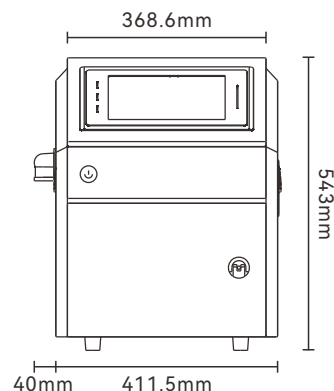
Printhead side view



Left view



Main view



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