SOP®

Best Coding & Marking Solutions Provider

SOP S4

CONTINUOUS INK JET PRINTER
GEAR PUMP SERIES

Stay focused
Stay ahead

- Dual high pressure printhead
- SCloud cloud service platform
- High-speed eight-core CPU
- Remote assistance · upgrade

Langde Technology Co.,LTD

Sales service hotline
400-870-9987

Website www.langdetech.com

No regional enterprises in China

National high-tech enterprise

National software enterprise

SOP S4 Gear pump series

Small Character 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 services, and realizes all-weather full intelligent monitoring, remote monitoring, remote upgrade, private customization, and personalized services with one click.

· It has powerful software editing functions and extremely high stability. In terms of product performance and application, it brings users a more perfect coding & marking experience.

Overall performance

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

User interface

10.1 inches color LED touch screen
Start-up language selection/with screen saver function
Image and text menu
Fault detection and automatic display
Multiple levels of password protection
WYSIWYG

External expansion

- USB port
- Ethernet port
- RS232
- RS485
- Photoelectric switch input
- Encoder input
- Alarm output
- Reserved multi-channel control output

Language

Chinese
English
French
German
Korean
Vietnamese
Persian
Arabic
Turkish
Spanish
Portuguese

Specifications & Environmental Requirements

Specifications: 535.8x306x405.6mm
Weight: 22kg
Voltage: 85-265 VAC, 50~60Hz
Temperature: -10°C~45C
Humidity: 10~95% non-condensing
Protection level: IP55
Umbilical Length:

Default 3 meters

Customizable 6 meters

Global Coverage Wide Applications

- Food and beverages
- Building materials
- Daily chemicals
- Wires and cables

Special harsh industrial environment

Adopt wear-resistant stainless steel chassis, IP55 protection level, unique printhead 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.

Create a perfect coding & marking experience

Original Internet cloud service platform

Cloud server SCloud, inkjet printer butler system, "Clairvoyance" system, continuously monitor and track inkjet printer parameters, allowing users to proactively solve potential problems of inkjet printers and ensure uninterrupted operation of the production line.

Inkjet printer butler system
Powerful AI big data smart monitoring uses the latest Internet of Things perception system and AI big data analysis to support remote viewing of the operating status of multiple devices at the same time, real-time control of equipment abnormalities, and timely processing.

Clairvoyance System
The meticulous single-machine operation is like being on site, helping customers to easily eliminate potential faults.(The effect is better when used with "Inkjet printer butler system")

Clairvoyance System

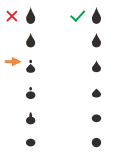
Printer Butler System-Cockpit Main Window
Support computer WIN terminal

Advanced ink viscosity automatic control system

Adopts advanced independent viscometer to control ink viscosity, continuously monitors ink viscosity and ambient temperature throughout the process and automatically adjusts in a closed loop, which is not affected by factors such as ambient temperature changes and startup time, so that the printer always maintains perfect printing quality.

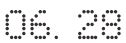
Integrated ink core

Particle status



If the ink particles are not in a stable state, the inside of the print head will become dirty and characters will be messed up.

Not stable particle state



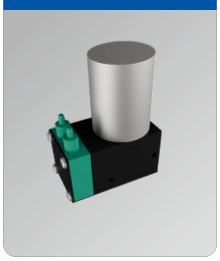
Stable particle state

Unique triple printhead anti-clogging function

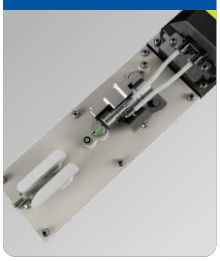
- The unique four-valve structure of the printhead can ensure that the ink in the ink system can be thoroughly cleaned and returned to the ink tank, truly achieving fully automatic nozzle cleaning. Greatly reduce daily maintenance work and improve the stability of equipment operation.
- Equipped with an independent cleaning pump, it automatically sprays diluent to clean the nozzle and recovery pipeline every time the machine is shut down. When the machine is turned on, it automatically sprays solvent to clean the nozzle and recovery pipeline before spraying ink.
- The nozzle sheet can be removed separately and placed in an ultrasonic container to completely solve the blockage problem.

Four-valve integrated structure

Independent cleaning pump



Independently removable nozzle piece



Powerful printing function

- Other non-working information can be edited while the machine is working, and the printing content can be switched instantly.
- Anti-counterfeiting code printing and variable barcode printing can be realized online. Receive the pattern compiled by the computer and make special characters or patterns directly on the touch screen.
- It has special functions such as encoding synchronization, photoelectric synchronization, synchronizer synchronization and fixed distance, online one-time detection N times printing, N times detection one time printing, reciprocating printing, multi-content selection printing, remote network printing, etc.
- The counter step length can be set at will, increment, decrement, cyclic printing, etc.

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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: 325 m/min(5dot matrix)
315 m/min(7 dot matrix)
245 m/min(9 dot matrix)
138 m/min(12 dot matrix)
93 m/min(16 dot matrix)
37 m/min(24 dot matrix)
18 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: 1~12mm (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, 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)

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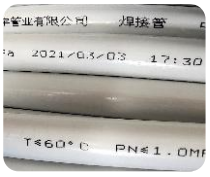
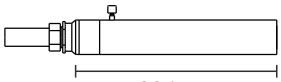


Printhead bottom view

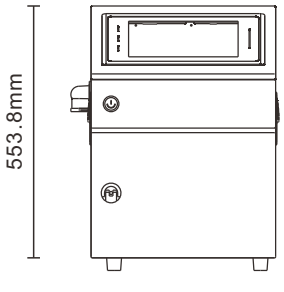
∅42mm

Printhead side view



234mm

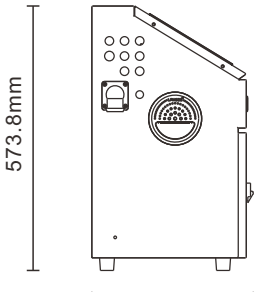
Front view



553.8mm

40mm 365.6mm

Side view



573.8mm

306mm

Langde Technology Co.,LTD

No.3 DaweiRoad,Gaoxianglndustrial ParkWenzhou,325006,China
Phone:+86-577-88609616 Fax:+86-0577-89615050

Sales Service Hotline
400-870-9987
www.langdetech.com