



LANGDE[®] 朗帝科技

Langde Technology Co., Ltd



TABLE OF CONTENT

1 Summary

About our company,
mission & vision, history
and our partners

3 Competitive Advantages

Our advantages are flexible networking,
customized software according to
customer needs, remote control and
remote upgrade, and a four-valve
integrated structure for the nozzle...
7 core technologies

2 Products Categories

Diaphragm pump series
Gear pump series
White ink machine series
SOP series
High resolution series

4 Popular Models Intro

LD900
LD850
LD760
...

SUMMARY



Langde Technology is a leading inkjet printer manufacturer in China. Its predecessor was the inkjet printer division of Shenou Communication. It has been focusing on R&D and production since its establishment in 1997.

We provide coding and marking products, consumables and software solutions. Serving more than 20 industries including food, beverage, pharmaceutical, personal care, electronics, chemicals and aerospace.

Established

Jan 1997

Headquarters

Wenzhou, China

Annual sales volume

7500 units

Patents

20

Target Audience

Professional regional distributors

LANGDE® 朗帝科技

LD850

CONTINUOUS INK JET PRINTER

Stay Focused Stay Ahead



Diaphragm pump

www.langdetech.com

Langde Technology Co.,LTD

LANGDE® 朗帝科技

LD910

系列

CONTINUOUS INK JET PRINTER

专心专注 领先一步



www.langdetech.com

朗帝科技有限公司

MISSION

At Langde, we live and breathe innovation in each drop of ink! Our mission is to revolutionize the coding and marking industry with cutting-edge technology and unparalleled excellence. STAY FOCUSED. STAY AHEAD.

VISION

To empowering businesses with our top-of-the-line inkjet printers, consumables, and software solutions. To redefine the standards of printing perfection.

Company history

1999

Established a coding equipment R&D project team and attempted to enter the coding and identification industry

2002

The LD580 inkjet printer was launched. This model has made many innovations in core technologies such as printer stability, controllability and nozzle design.

2005

Launched the LD700 inkjet printer, with an independently designed white ink mixing system, specially designed for inkjet printing on dark-colored materials

2013

LD690 is launched, specially designed for use in extremely harsh environments such as dusty and humid environments.

2020

Started cooperation with YTO Express

2023

950 Test Successful
960 Test Successful
Single customer orders exceed 630 units
Gear pump series products account for over 50%

2010

LD620 and 680 are launched, with adaptive intelligent machines and greatly improved long-term operation stability.

2017

LD900 gear pump inkjet printer is on the market, with powerful software editing functions and extremely high stability. Can compete with European brands.

2012

Great progress
LD800 is launched, using touch screen for the first time, 32-bit ARM structure technology, cloud service function, remote upgrade and other Industry 4.0 technologies.

2019

Officially launched a series of high-resolution inkjet printers, including handheld and desktop ones, opening up new markets and new areas for the company's inkjet marking product applications.

2022

SOP1 lanuched
Achieved the quantity of Single customer orders exceed 500 units

2007

SOP610 is launched, intelligent fault diagnosis, reducing daily maintenance work

2015

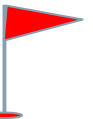
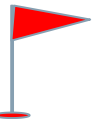
Launched LD810 inkjet printer, integrated LED display, Industry 4.0 technology, powerful cloud service function, user software customization.

2004

Launched the new four-pump integrated design inkjet printer LD600, reducing consumables consumption by 80%

2000

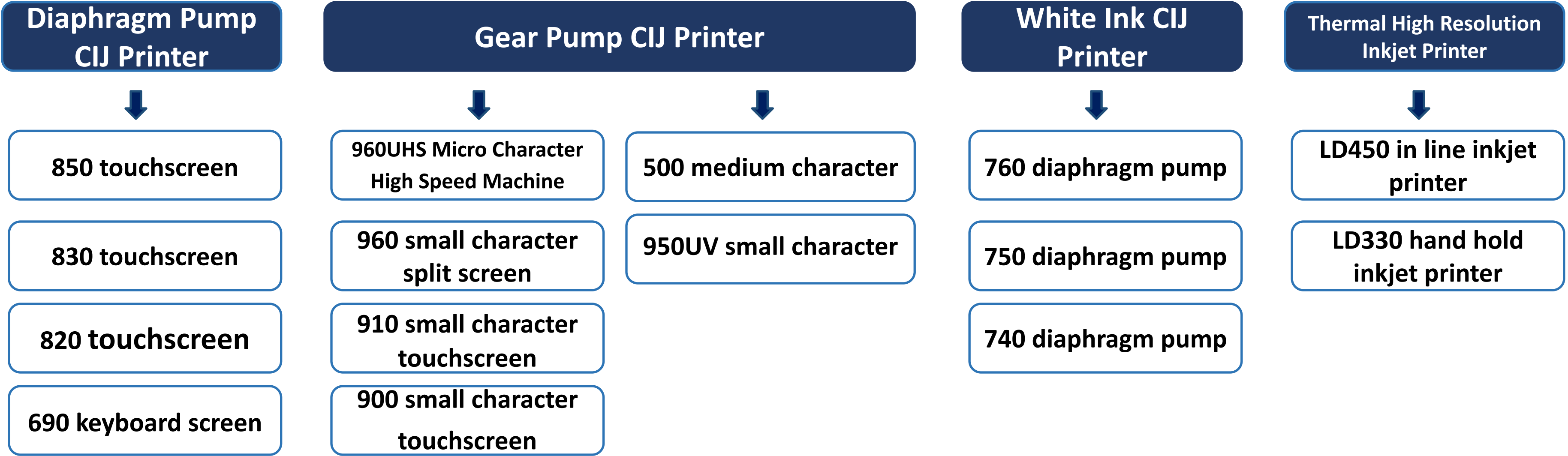
The first batch of inkjet printer S2000 was launched and was widely welcomed by the market.



End users



PRODUCTS



Products

Diaphragm Pump Series

Gear Pump Series

Who to sell to?

- Special ink
- Sensitive to consumables consumption
- Customers who are used to using Hitachi and KGK products

- Requires fast on-site printing speed
- Large print volume
- Used to using VJ/MI/DO and other similar machines

Who will buy?

- Customers with a large number of food products
- Hitachi and KGK agents have profit requirements
- Customers have price requirements

- Large inventory of gear pump equipment
- Users of competing products
- Customers have requirements for price

OUR COMPETITIVE ADVANTAGES



Stable

A dark blue circle with a light blue wavy pattern at the bottom, casting a light gray shadow below it.

Economical

A dark blue circle with a light blue wavy pattern at the bottom, casting a light gray shadow below it.

Intelligent

A dark blue circle with a light blue wavy pattern at the bottom, casting a light gray shadow below it.

Multifunctional

A dark blue circle with a light blue wavy pattern at the bottom, casting a light gray shadow below it.

Bionics principle · Four pumps in one

Based on the bionics principle of the human heart, the micro-motion is wear-free, does not degrade the ink performance, and has a long service life.

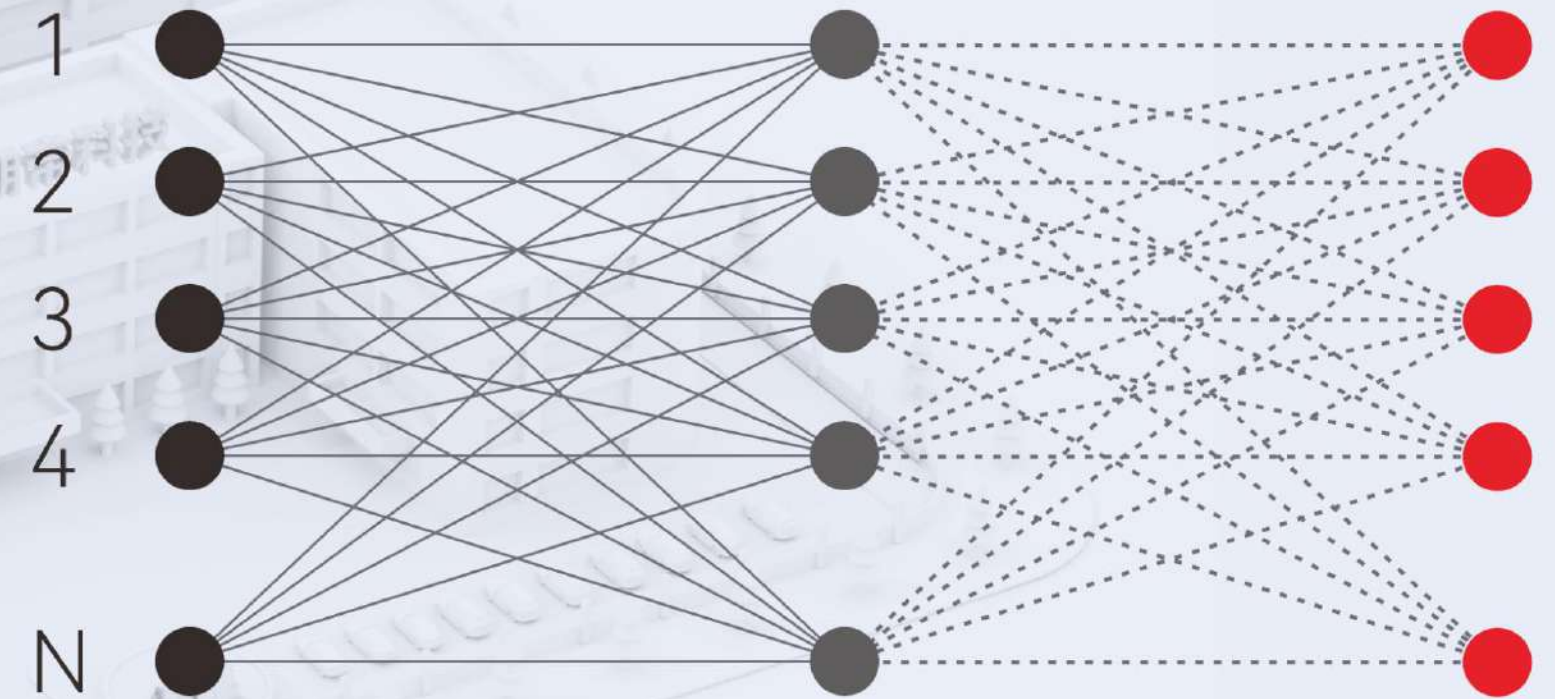


<Applicable to diaphragm pump series>

Fourier · Core algorithm

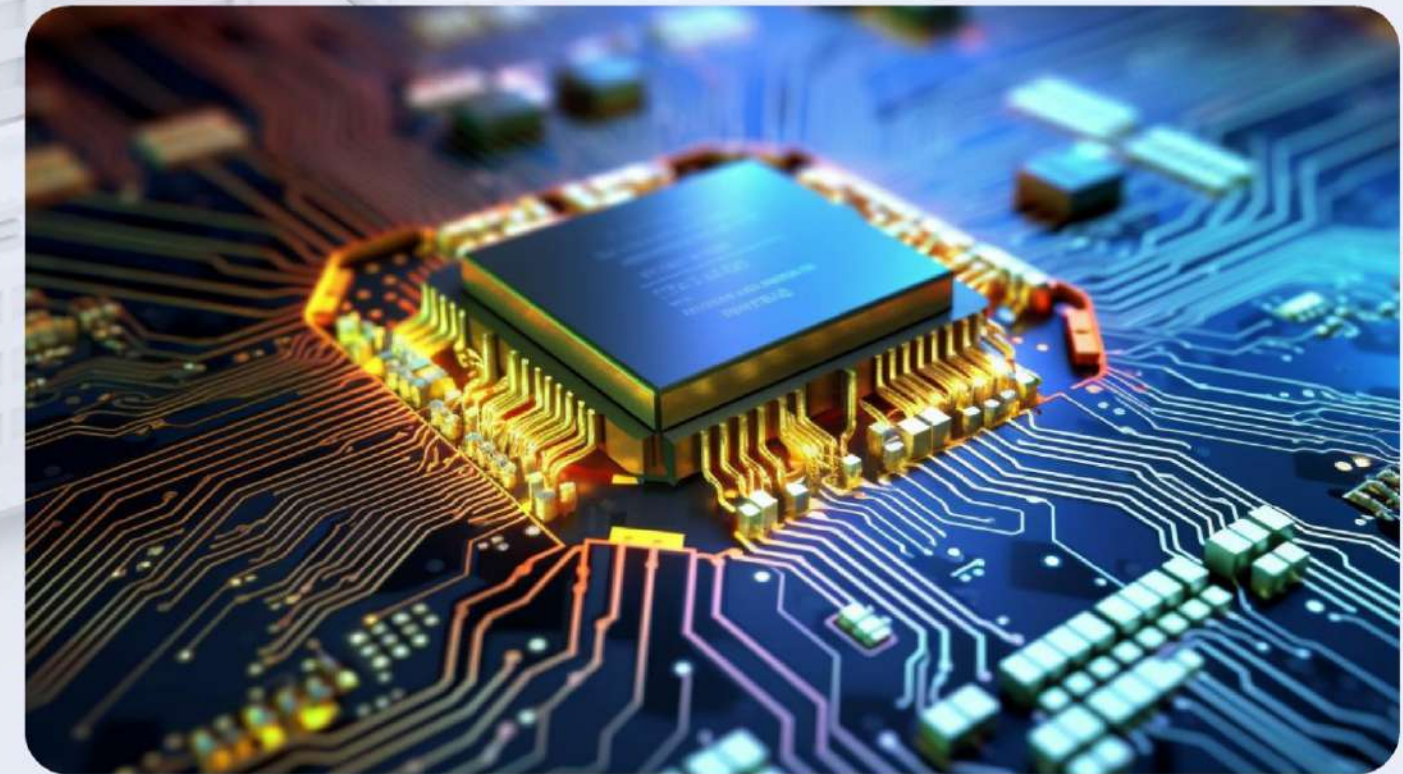
Ink dot dynamic self-calibration technology: ensures stable operation under different environments, temperatures, ink viscosities, etc.

<Applicable to all series of models>



8-core · high-speed CPU

User interface, core data, print management, print head control, interface management, power management, network management, and consumables management, the eight systems work independently, cooperate perfectly, and have strong scalability.



<Applicable to 850 / 960 / 910 / 500 / 760 / S4 series models>

Printhead · Four-valve structure

It can efficiently and thoroughly treat the printhead, ensuring smooth and clean startup and shutdown every time.



<Applicable to 910 / S4 / 960 / 850 / 760 series models>

Accurate · independent viscometer

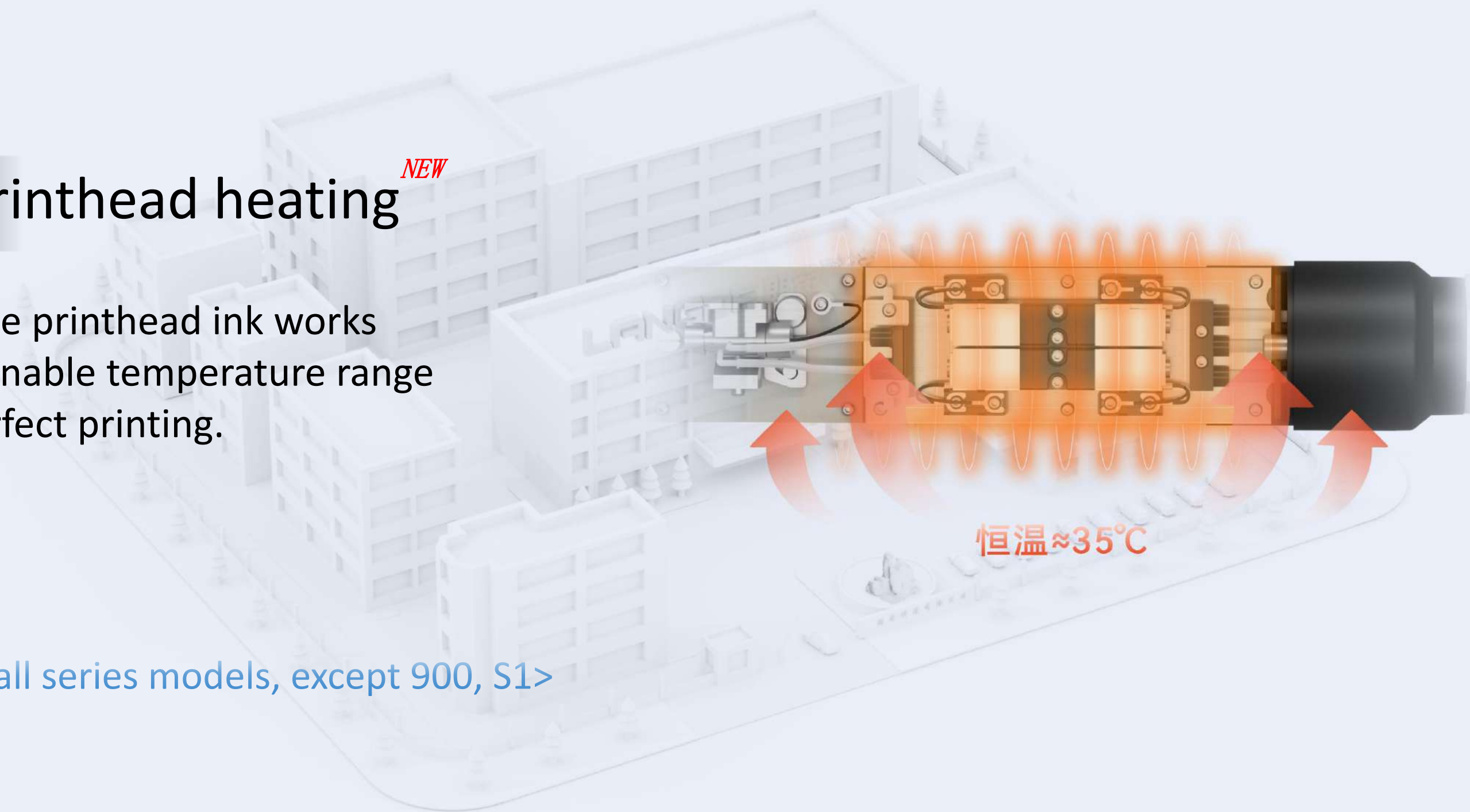
Accurately measure ink viscosity and dynamically calibrate at the right time to ensure perfect printing results.

<Applicable to all series models, except 900, S1>

Smart · Printhead heating ^{NEW}

Ensure that the printhead ink works within a reasonable temperature range to achieve perfect printing.

<Applicable to all series models, except 900, S1>



STABILITY

7 core Technologies

LANGDE® 朗帝科技

Smart · Ink core heating

Ensure that the equipment can work perfectly in low temperature environment.

恒温 $\approx 35^{\circ}\text{C}$

<Applicable to diaphragm pump series>

STAY FOCUSED · STAY AHEAD

ECONOMY *All-round cost saving*

LANGDE® 朗帝科技

Save · Consumables



Saves about **50%** of consumables compared to gear pump series models.



STAY FOCUSED · STAY AHEAD

ECONOMY **All-round cost saving**

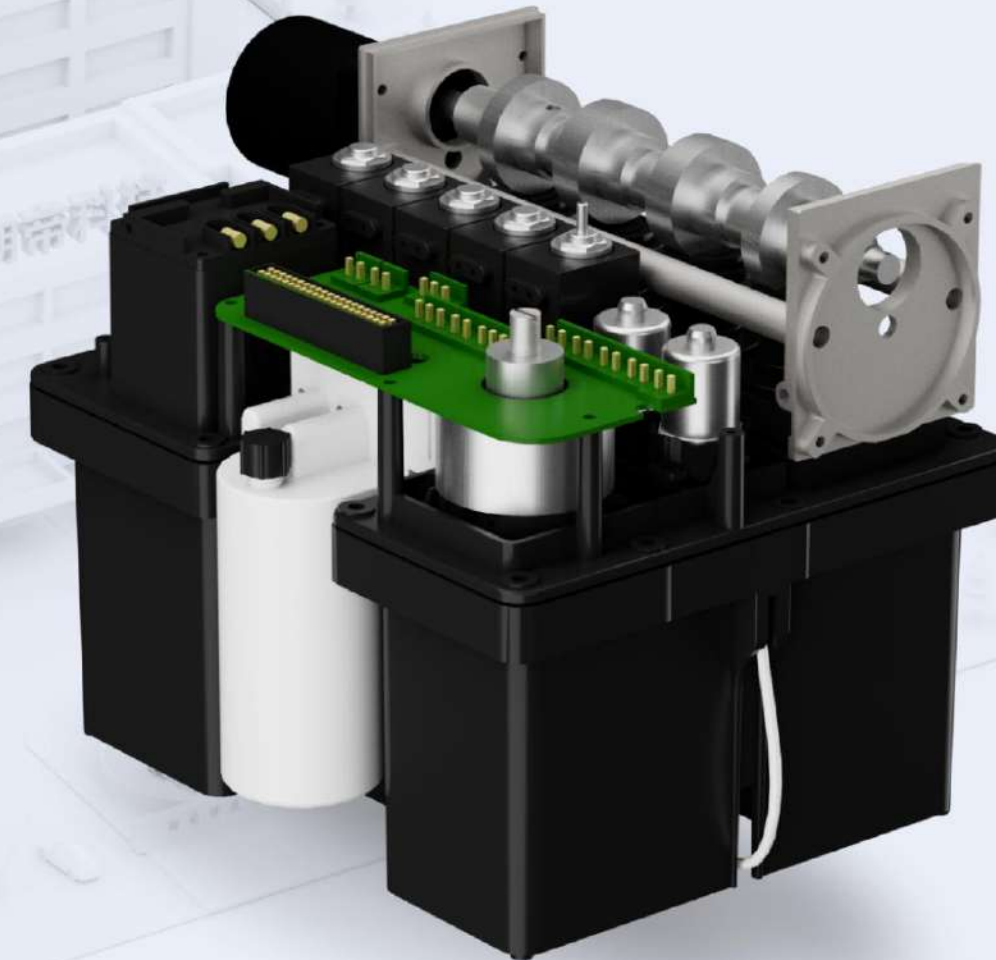
LANGDE® 朗帝科技

Save · Accessories



Each accessory unit is independently designed and can be flexibly replaced to reduce maintenance costs

<Applicable to all series models>



STAY FOCUSED · STAY AHEAD

ECONOMY *All-round cost saving*

LANGDE® 朗帝科技

Save · Maintenance



Built-in multiple intelligent control programs, one-click diagnosis, quick processing, shortening maintenance time.

<Applicable to all series models>

2023-08-31 14:09:45

Print head already

Exit

SYS status

Valve	176mA	HV trip	0%(0)	Device current	0.000A
Valve Volt	5.74V	Vacuum	0.020	Head temp	35.7°C
Mod current	0.784	310V	306.5V	Inkcore TM	32.6°C
Mod Volt	91.3V	Phase Volt	13.4V	Ink press	0.378
Power Volt	184.8V	Head cover	Off	Drop Freq	96.6kHz

STAY FOCUSED · STAY AHEAD

ECONOMY *All-round cost saving*

LANGDE® 朗帝科技

Save · Manpower



Simple user interface and fool-proof design to prevent errors. Significantly reduce professional requirements.

<Applicable to all series models>

2023-08-31 14:22:37

Print head already

V1.00-V1.10@531

Configuration

Message

Operation

System

Printing info: ooiii

Edit current file

1234567890ABCDE
1334567890HUGFR
1234567890MJYGH
1234567890GHIJK

Counter

00198375

Reset

Counter1

00116753

Reset

Dot position:422

Pump rpm 1440

Viscosity:32.2(32.6)

Mixing Jar:Normal

Phase value:63

Mod:94(100.1)

Pressure:0.379(35.7°C)

Print Height:100(7500)

More

Ink

100%(0.00)

Solvent

100%(0.02)

Print off

Shutdown Printer

Clean shut down

Power off

S/N:2F9D4BCF03000088

AI intelligent inkjet printer

Gear pump series

Version:9164UHS-V1.0

STAY FOCUSED · STAY AHEAD

ECONOMY **All-round cost saving**

LANGDE® 朗帝科技

Save · Time



Remote centralized control
Sccloud-AI big data analysis
Improve work efficiency

<Applicable to all series models>



STAY FOCUSED · STAY AHEAD

Inkjet coding butler system ^{NEW}

Use the network to centrally manage all online devices, and use AI big data to comprehensively and intelligently analyze important node parameters to gain an in-depth understanding of the long-term operating status of the equipment.



喷码管家系统-驾驶舱主窗口

<Applicable to all series models>

Record charts and detailed analysis

All equipment information is uploaded regularly, and the large background server automatically records the operation status of the equipment throughout its life cycle. You can select time nodes to view relevant data in segments and display them in the form of charts, which is simple, efficient and clear at a glance.

HOT

<Applicable to all series models>

Clairvoyance System ^{NEW}

Users can use PC/smartphone to monitor the equipment dynamically at all times, check the operation status of the equipment, and remotely control the machine as if they were on site, greatly improving work efficiency.

<Applicable to all series models>



SMART

Internet *cloud* service platform

LANGDE® 朗帝科技

Intelligent push of key information ^{HOT}

Key information such as equipment failure, ink and diluent depletion can be notified to users through modern communication methods such as email, WeChat, SMS, and DingTalk, allowing users to obtain on-site information in a timely manner even if they are around the world.



<Applicable to all series models>

Flexible to cope with various work scenarios

Flexible · Software

According to the actual needs of customers, various special software can be flexibly customized.

<Applicable to all series models>

2023-08-31 14:15:50

Print head already

Exit

☒ WAN

☐ LAN

☒ Line 1

☐ Line 2

Upgrade Package	Description	Size(Byte)
960UHS_230810	960UHS	02401207
XLJET	XLJET	02401211

Check for upgrades

➔

Download update

➔

Check file integrity

➔

Update system

Next step



Flexible to cope with various work scenarios

Flexible · Hardware

According to the actual situation of the production line, special models with special shapes of printhead, umbilical lengths and different protection levels can be customized.

<Applicable to all series models>

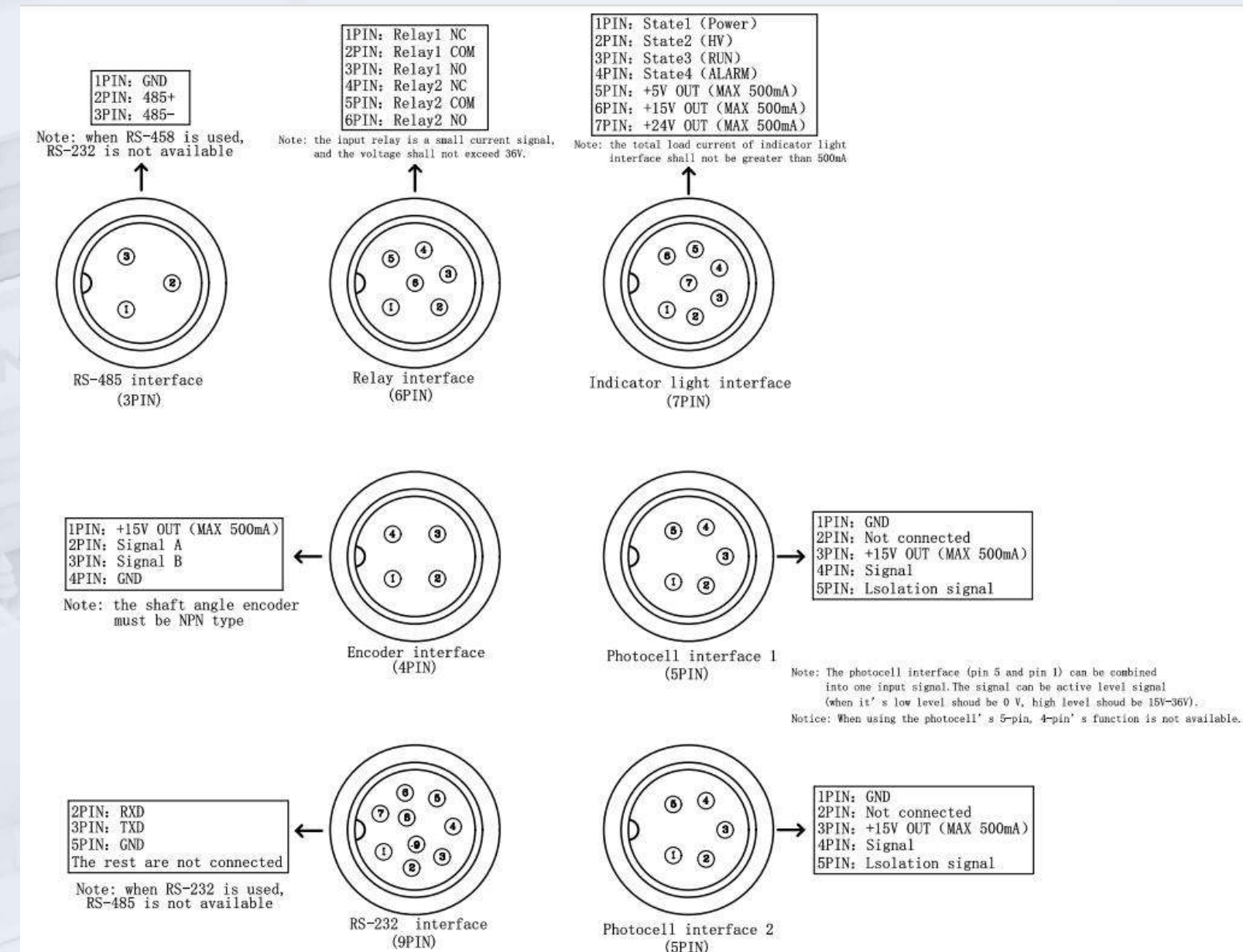


Flexible to cope with various work scenarios

Flexible · Interface

Rich input and output module interfaces can easily connect to MES systems, PLCs, weighing instruments, scanners and other industrial equipment to achieve dynamic data transmission.

<Applicable to all series models>



Flexible to cope with various work scenarios

Flexible · Power supply

85-265V voltage automatically switches, and built-in UPS uninterruptible power supply can be optionally equipped. Abnormal power outage will not affect normal operation. The power supply status is intelligently monitored at all times to prevent ink leakage or blockage caused by unexpected power outages that cannot cause the print head to be cleaned.



<Applicable to all series models>



Flexible to cope with various work scenarios

Flexible · Networking

The machine can access the Internet flexibly through wired networks, wireless networks, environmental hotspots, mobile phone hotspots and optional 5G network cards.

<Applicable to all series models>

2023-08-31 14:14:46

Print head already

Exit

Network

WIFI

Refresh

Connect

Physical address	Frequency	Signal strength	Safety	Hotspot name	Connect
70:42:d3:7e:97:8d	2467	-45	none	LDKJ_TS	√
72:42:d3:5e:97:8d	2467	-45	WPA2-PSK		
b0:e5:ed:e2:82:1d	2462	-71	WPA2-PSK		
d4:da:21:d6:e7:c1	2417	-73	WPA2-PSK	Xiaomi_67C0	
f0:55:01:6f:b7:8c	2412	-73	WPA2-PSK	_____2.4G	
38:37:8b:93:4e:50	2437	-73	WPA2-PSK	BO QI PIAN GUANG	
82:a0:02:07:c2:d9	2412	-73	WPA2-PSK	_____	
38:37:8b:93:4e:51	2437	-73	WPA2-PSK		
44:47:cc:f4:2c:29	2447	-73	WPA2-PSK		
02:1c:55:10:16:94	2412	-73	WPA2-PSK	_____	
72:85:c4:d1:79:b6	2437	-73	WPA2-PSK		
72:85:c4:81:79:b6	2437	-74	WPA2-PSK	_____	

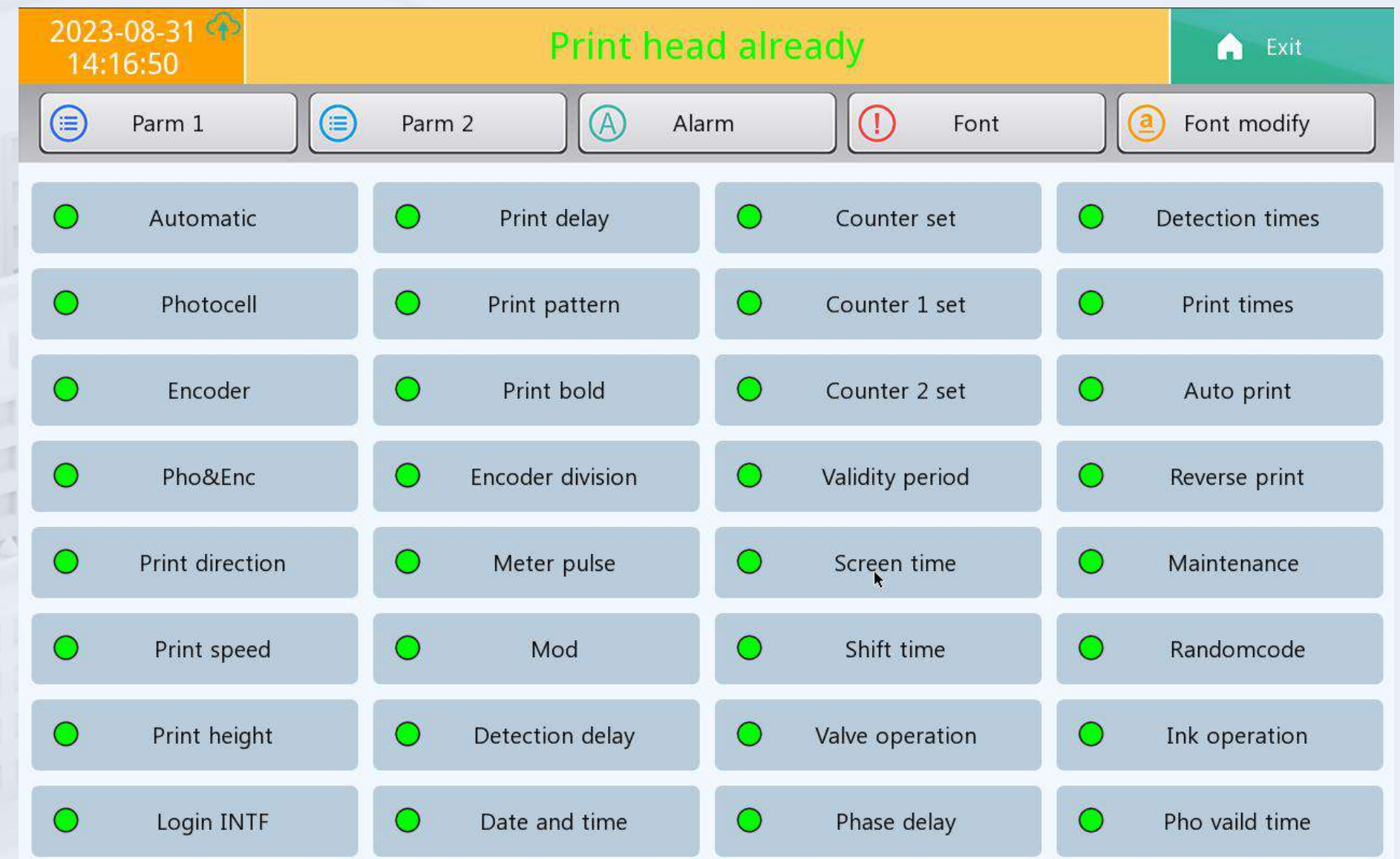


Flexible to cope with various work scenarios

Flexible · Parameters

Users can flexibly customize various parameters, only display their commonly used parameters, and block some irrelevant parameters.

<Applicable to all series models>

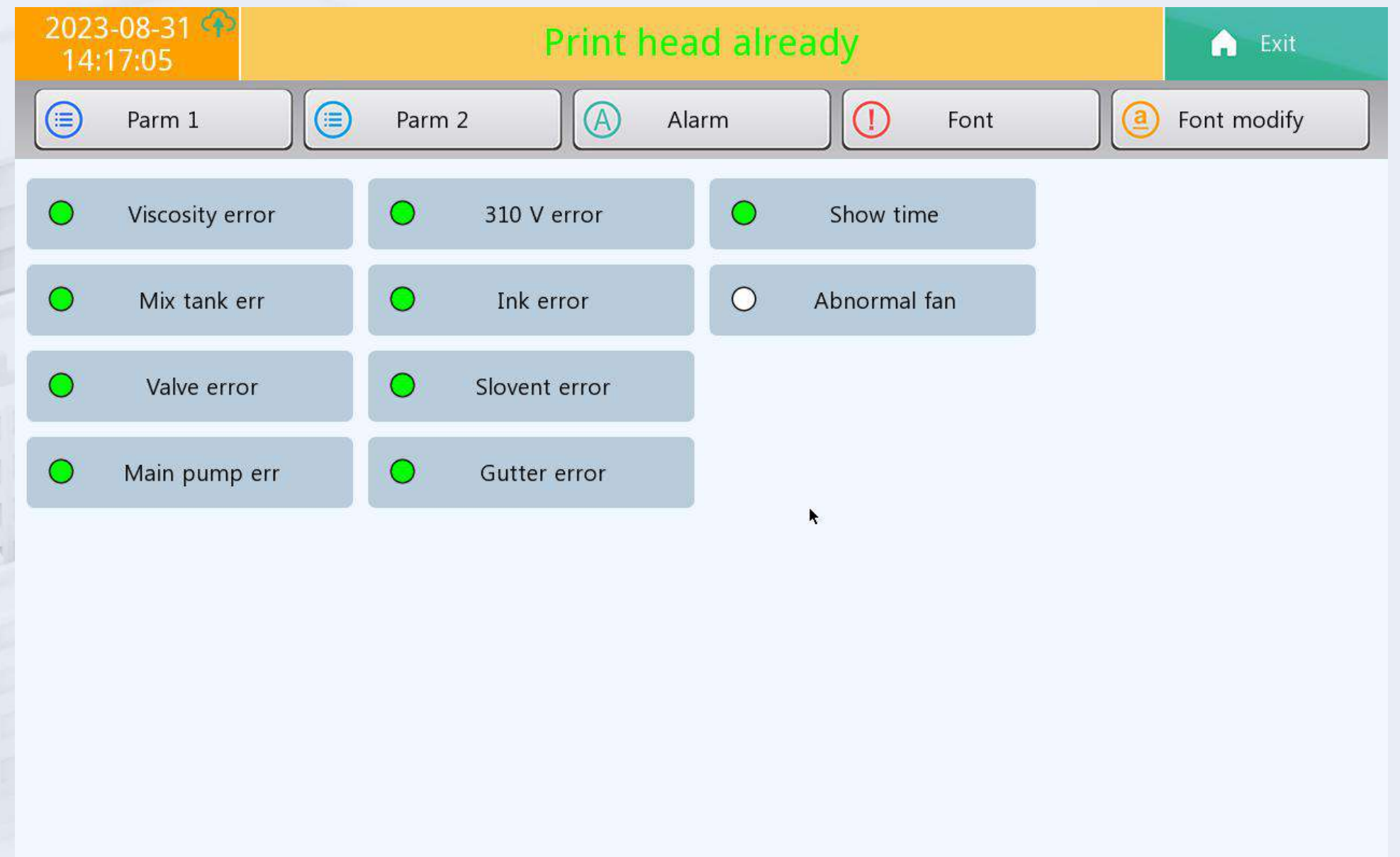


Flexible to cope with various work scenarios

Flexible · Alarm

DIY customized alarm content and form.

<Applicable to all series models>



Flexible to cope with various work scenarios

Flexible · Fonts

Freely choose the font you need, DIY modify the font, and create a special font.

<Applicable to all series models>



VERSATILITY

LANGDE 朗帝科技

Flexible to cope with various work scenarios

Flexible · Consumables

Flexible selection of 500ml/750ml or 5L large-capacity CISS consumables.
The world's only consumable code, 64-bit encryption algorithm, reliable and controllable.

<Applicable to all series models>

5L大容量连供系统

500ml / 750ml



*All products are created
to meet customer needs*



Appearance · Suitable for various scenes

The appearance is smaller than LD900, suitable for narrow and small spaces, and the fully enclosed chassis is more suitable for on-site working conditions.



Product · Comprehensive Upgrade

The 910 inkjet printer is a huge step forward, taking the proven 900 platform to a new level. A DIY area is reserved, making overall operation easier.

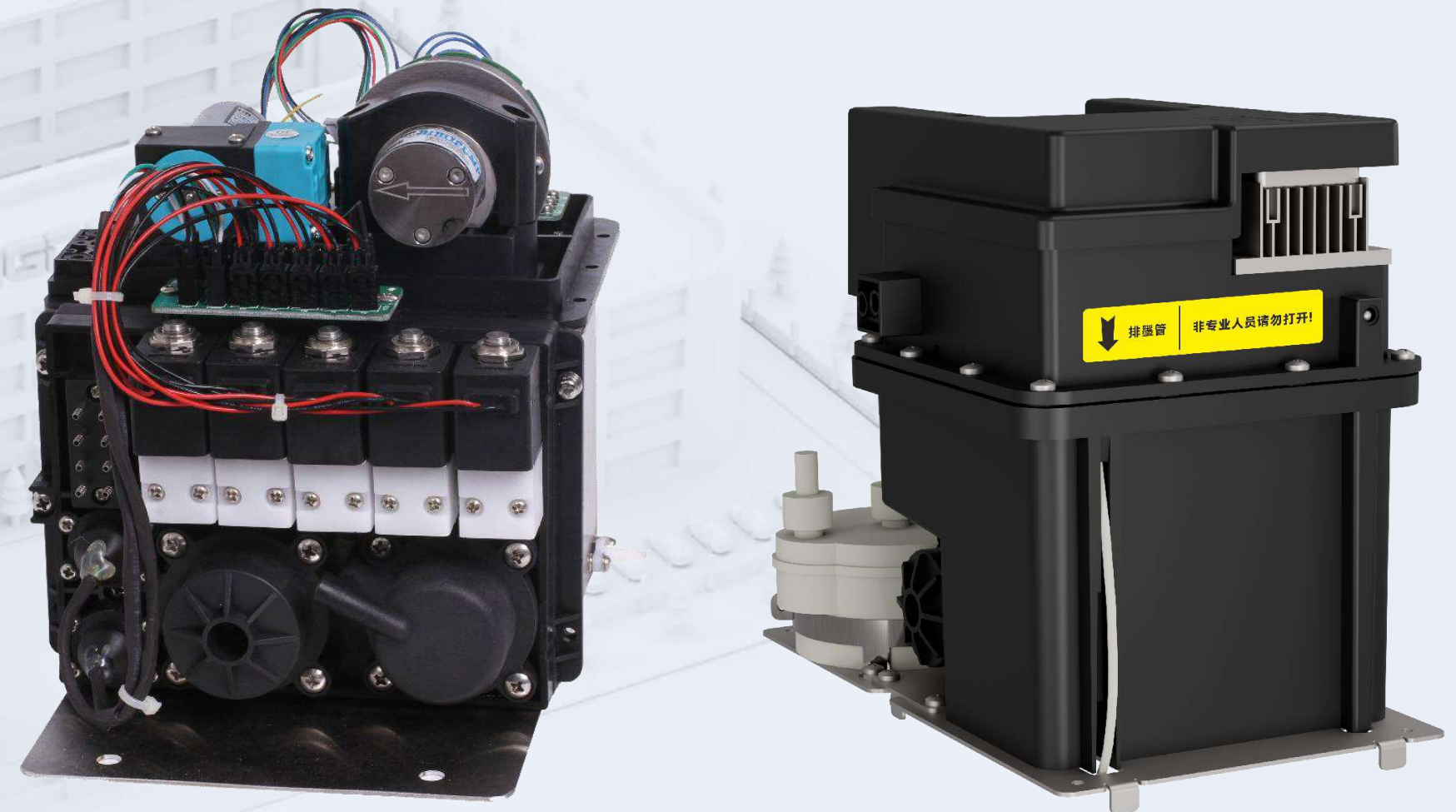


900 ink core

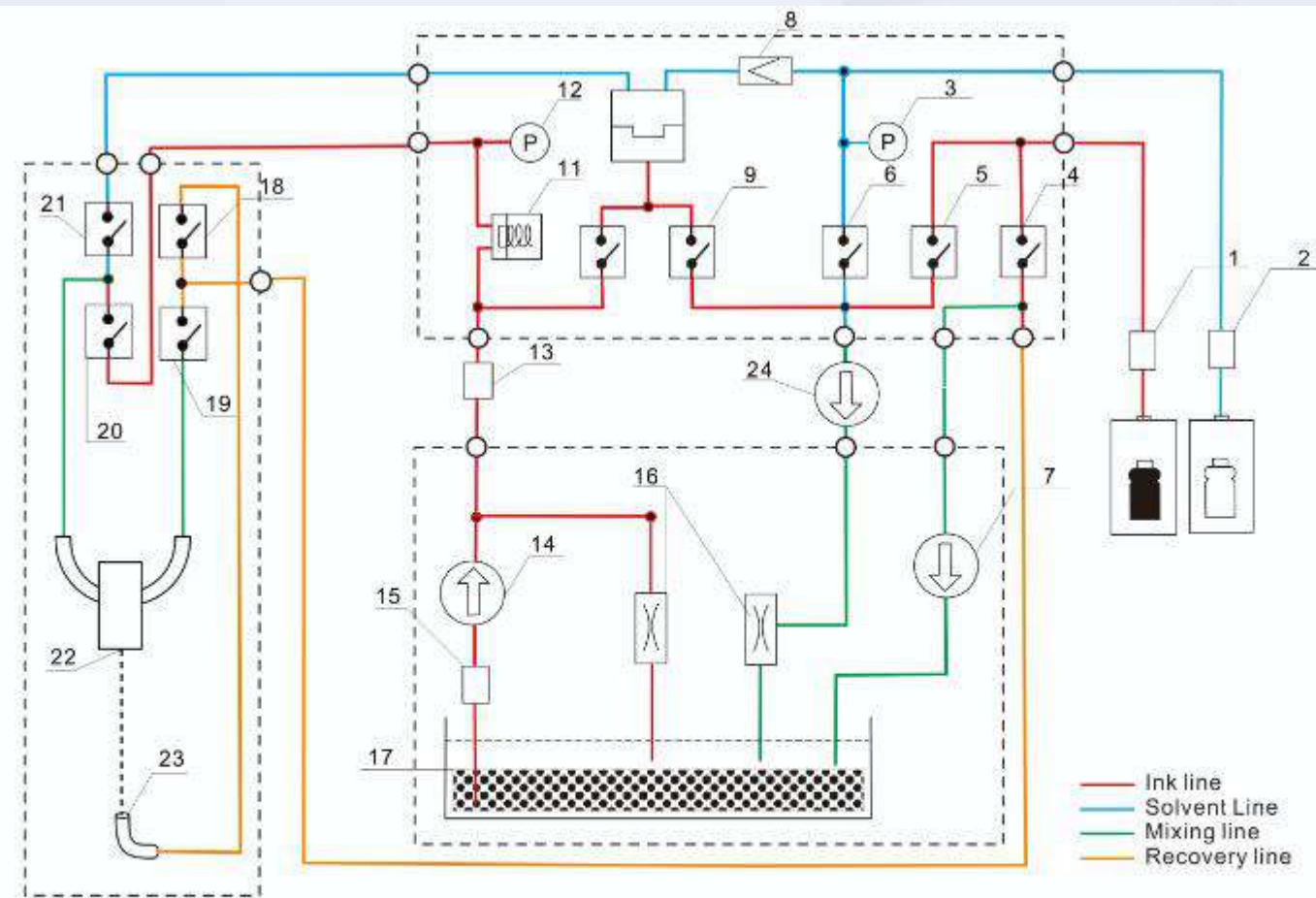
New

Technology · Integrated ink core

The new structure of integrated ink core is simple and easy to maintain with low failure rate.

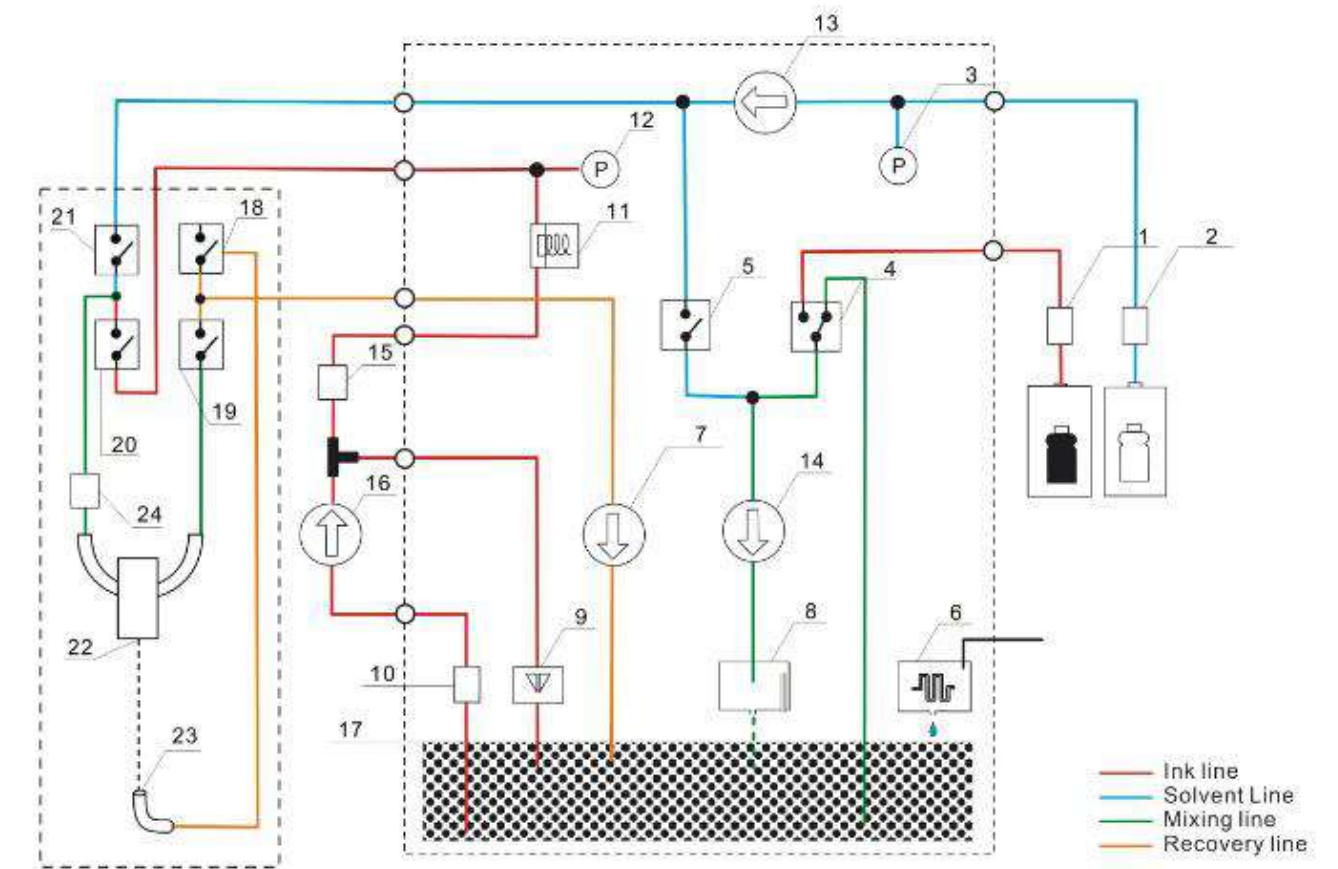


900/S1 ink system



1. Ink filter	2. Solvent filter	3. Negative pressure	4. Prime valve	5. Ink feed valve	6. Makeup add valve
7. Recovery pump	8. Check valve	9. Pressure	10. Vacuum	11. Buffer	12. Positive pressure
13. Main filter	14. Ink pump	15. Pump filter	16. Venturi	17. Pressure balance	18. Recovery valve
19. Head flush valve	20. Head feed valve	21. Purge valve	22. Nozzle	23. Gutter	24. Vacuum pump

910/S4 ink system



1. Ink filter	2. Solvent filter	3. Negative pressure	4. Ink valve	5. Solvent valve	6. Condenser
7. Recovery pump	8. Viscometer	9. Current limiter	10. Pre-pump filter	11. Buffer	12. Positive pressure
13. Solvent pump	14. Ink pump	15. Main ink filter	16. Main pump	17. Pressure balance	18. Recovery valve
19. Head flush valve	20. Head feed valve	21. Purge valve	22. Nozzle	23. Gutter	24. Nozzle filter

Eight cores · High-speed CPU

Equipped with an eight-core high-speed CPU, it has powerful performance and has two more cores than the 900.



900 printhead

Printhead · Dual high pressure technology

Dual high-pressure, four-valve structure,
No TOF control, not easy to hang ink, better
stability, more perfect typing effect.

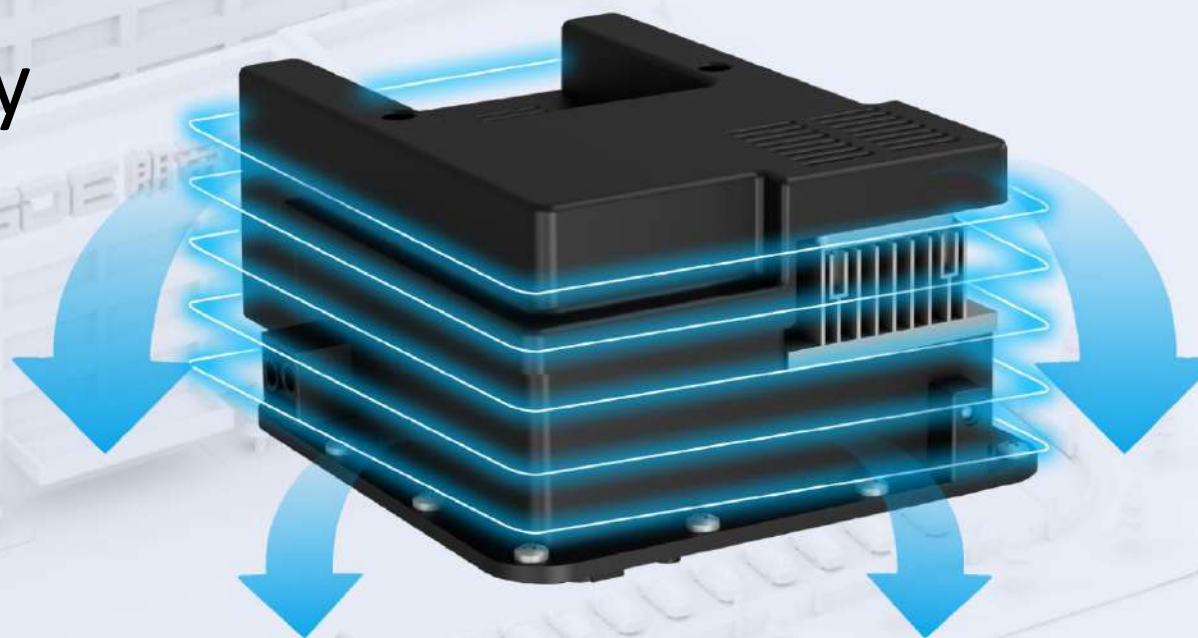


New

Condensation · 3D reverse cycle technology

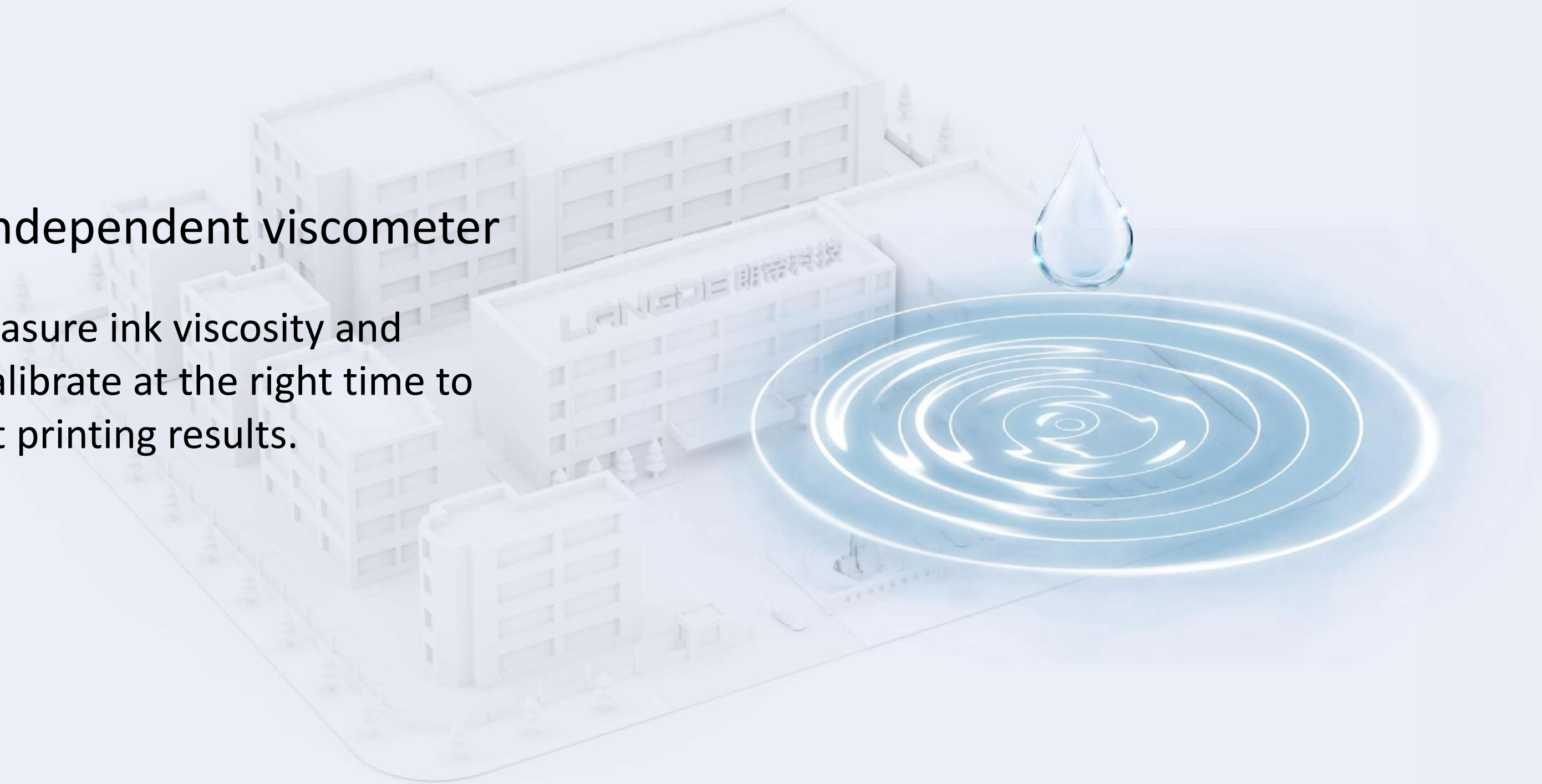
The new controllable 3D reverse cycle condensing system, full-power condensing, saves 35% of consumables.

3D逆循环技术



Accurate · Independent viscometer

Accurately measure ink viscosity and dynamically calibrate at the right time to ensure perfect printing results.





Technological innovation

*Comprehensively improve the
printing speed*

Brand innovation · independent split screen

The split screen design is detachable, extendable, and handheld, and can be integrated with on-site equipment.



Brand Technology · Split Ink Core

The split ink core structure is clear at a glance and easy to maintain.



Newly developed • Flat printhead

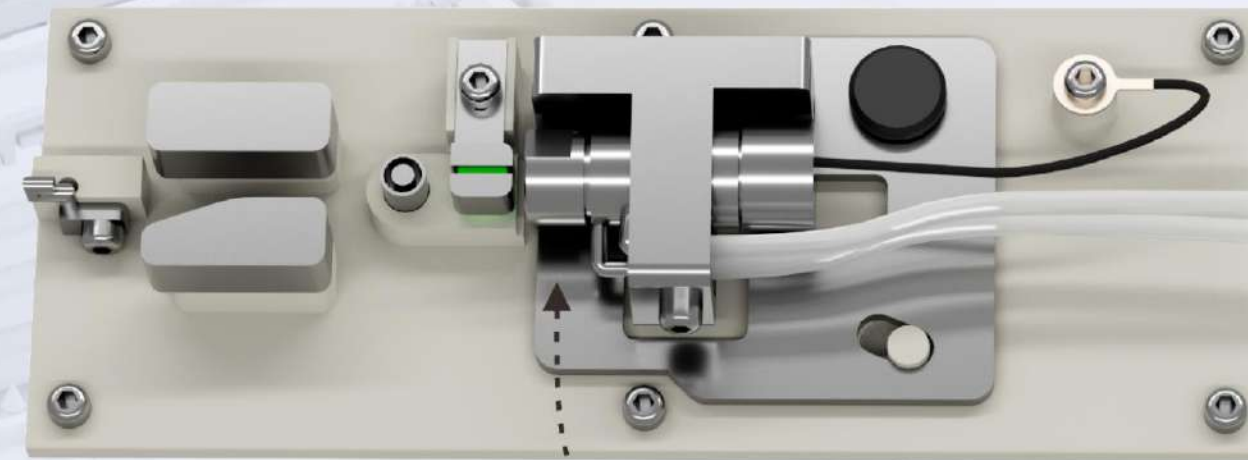
Special models for special industries can be equipped with special printhead.



Small nozzle · Big performance

UHS is a high-speed model with 98K crystal

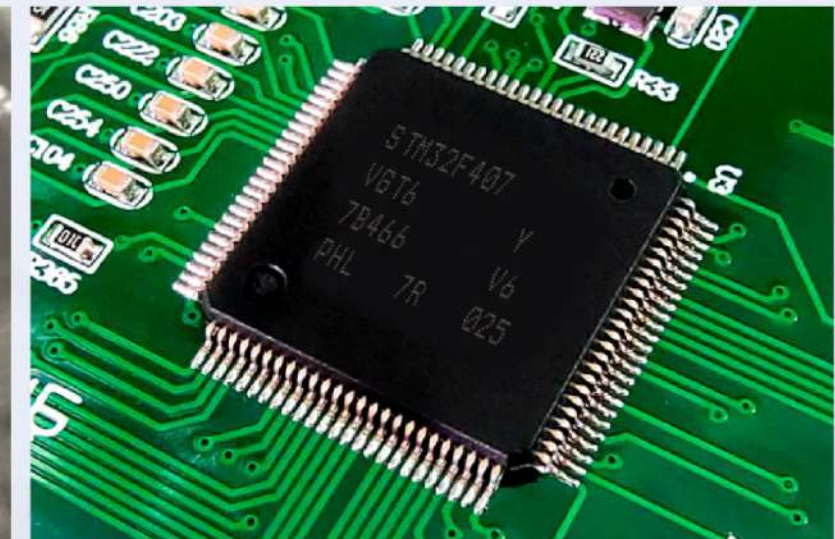
Nozzle size: 40 μ / 50 μ



40 μ / 50 μ

High speed · Micro characters

It is usually used on thinner products such as small pharmaceutical cans or bottoms, reagent cards, test tubes, wires and cables, electronic components, etc.



***LANGDE500 medium
character continuous inkjet
printer***

***It can print more clearly than
large character printer and
can print pictures***



Special · Printhead design

Newly designed square printhead for medium character printing, stable and reliable

Equipped with positive air pressure air pump, no fear of harsh environment

High protection level, effectively protects the stable operation of electrical equipment

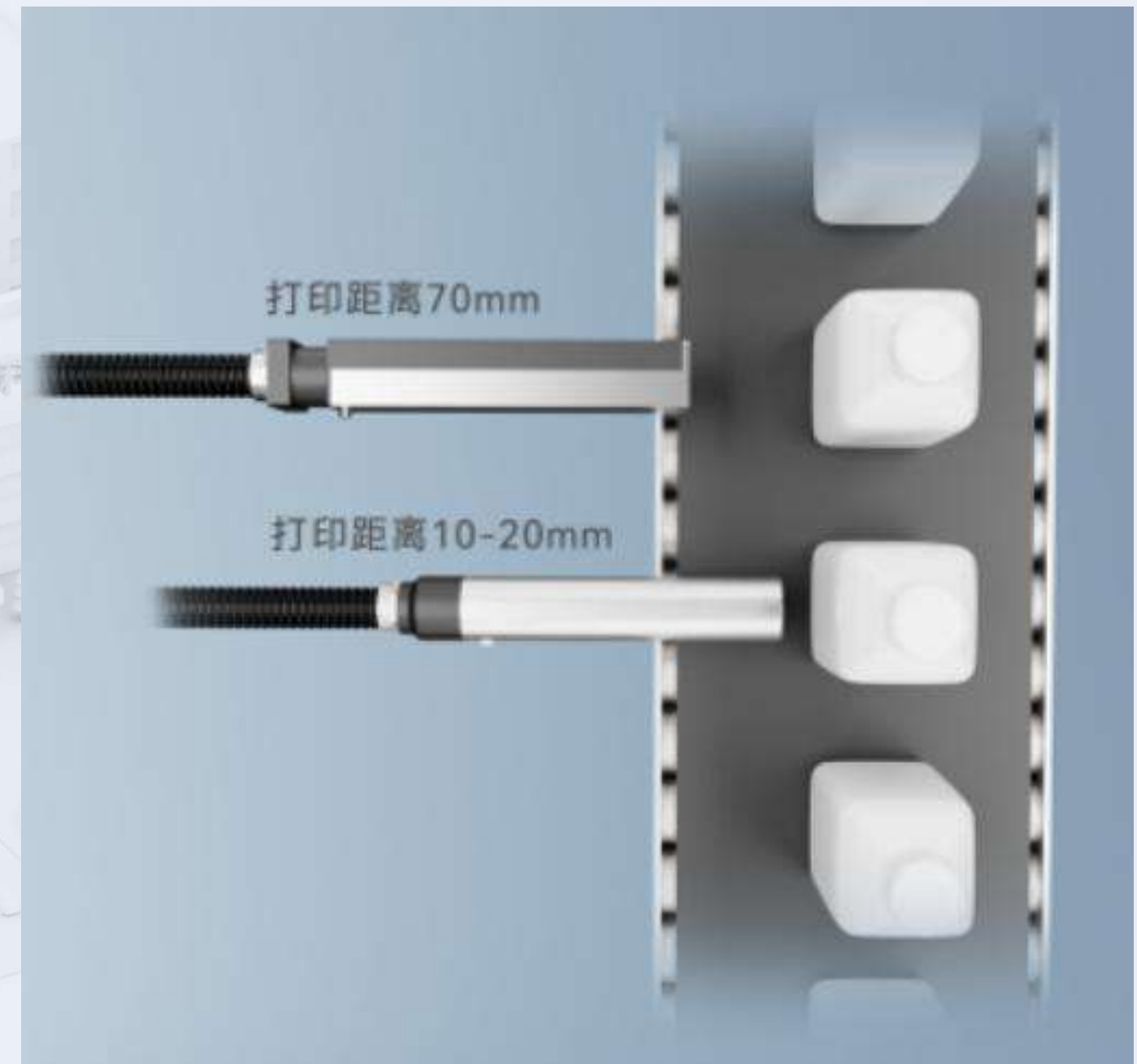
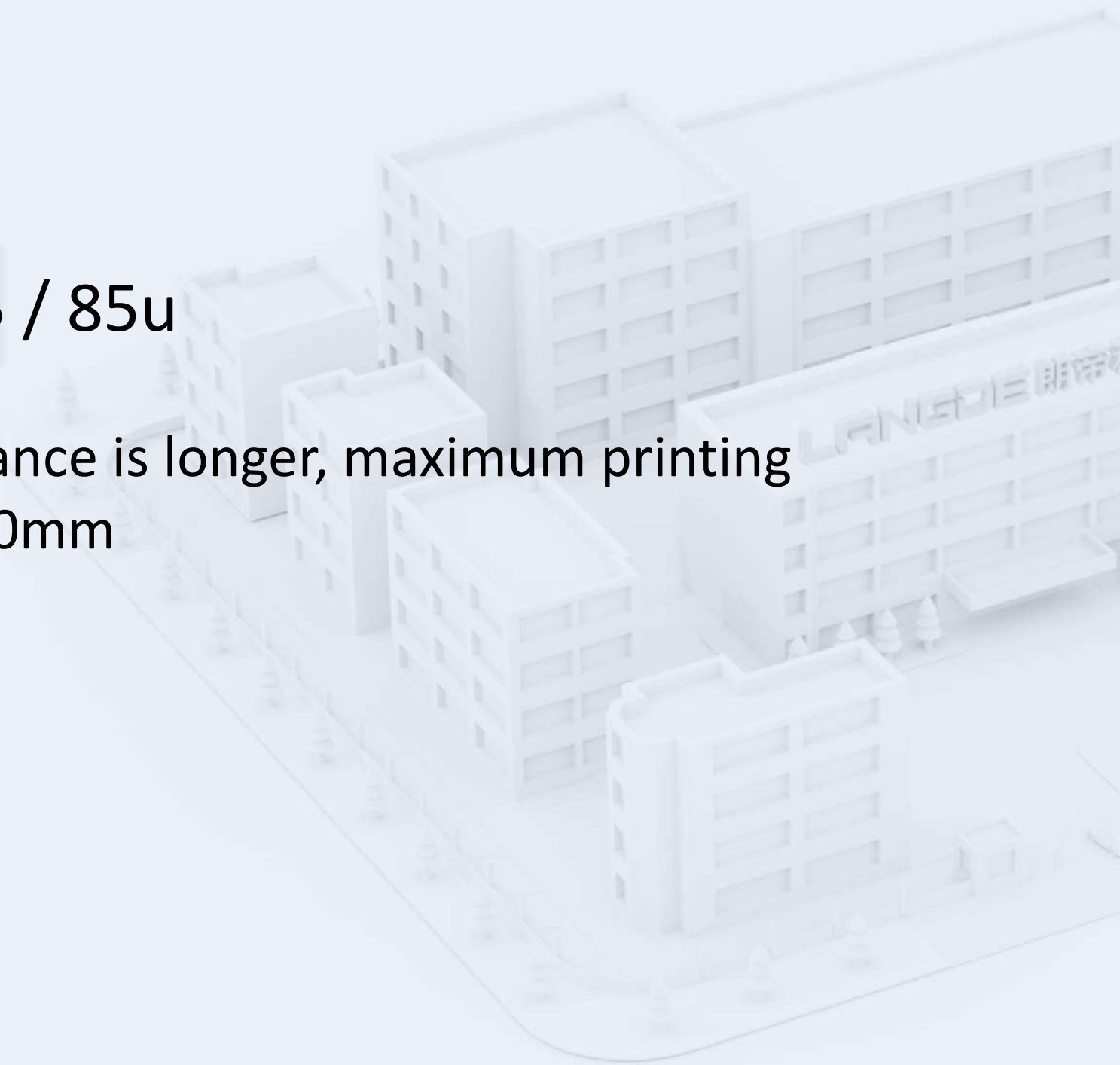


LD500

LANGDE® 朗帝科技

Nozzle · 75 / 85u

Printing distance is longer, maximum printing distance is 70mm



STAY FOCUSED · STAY AHEAD

LD450

LANGDE® 朗帝科技

High resolution 450 inkjet printer

Up to 3 print heads can be spliced

Standard speed 90m/min

Maximum 150m/min printing speed

12.7/ 25.4mm print head optional



STAY FOCUSED · STAY AHEAD

LD450

LANGDE® 朗帝科技

High resolution 450 inkjet printer

USB /Multi-port expansion/RJ45

Contains all the functions of Langde small-character machine host computer



STAY FOCUSED · STAY AHEAD

LANGDE 910HR

Micro-character inkjet printer

Printing small-size high-resolution characters

***Printing height as low as 0.8 mm,
printing speed up to 510 m/min***

***Excellent printing quality (5*5 single
line)***



LD910HR

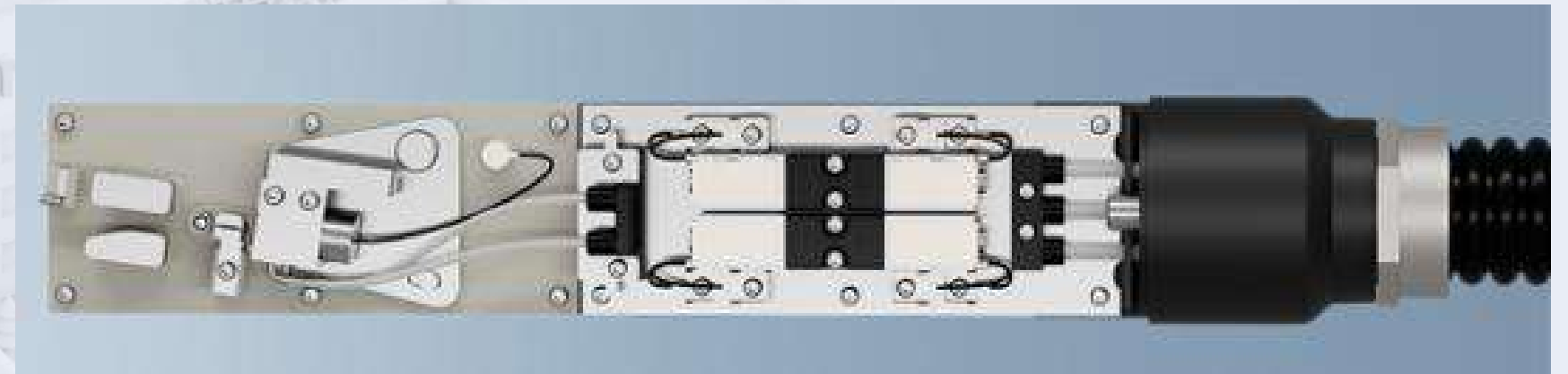
LANGDE® 朗帝科技

Nozzle · 40μm

Compact printhead design

Optimize ink dot positioning and achieve
excellent printhead stability

Crystal oscillator frequency 128K



STAY FOCUSED · STAY AHEAD



LANGDE760
White ink machine series

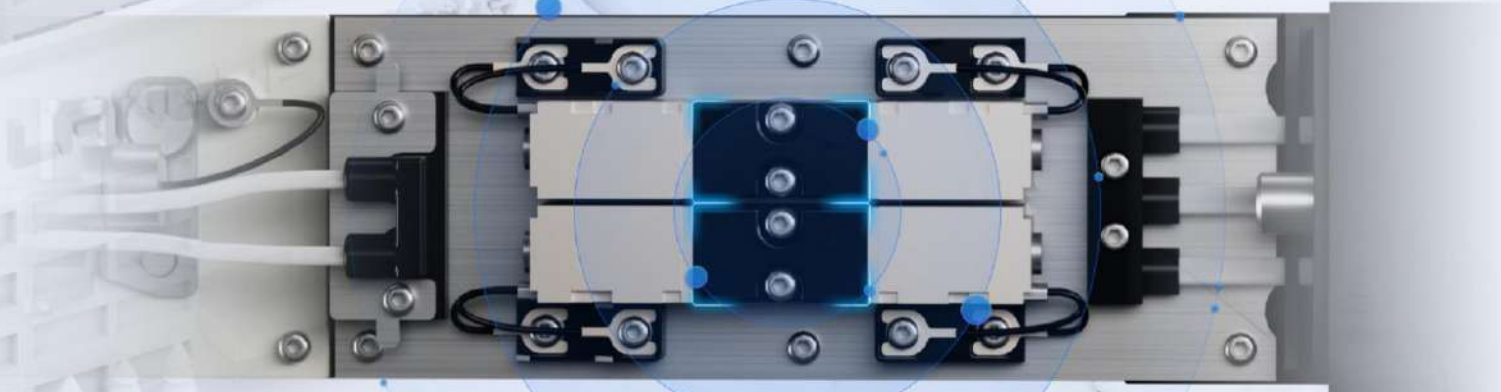
***Interpreting new technology of
pigment ink***

LD760 white ink printer

LANGDE® 朗帝科技

Exclusive · Break through traditional craftsmanship

Special diaphragm solenoid valve design.
Can efficiently and thoroughly handle the
printhead, ensuring smooth and clean
switching on and off every time.

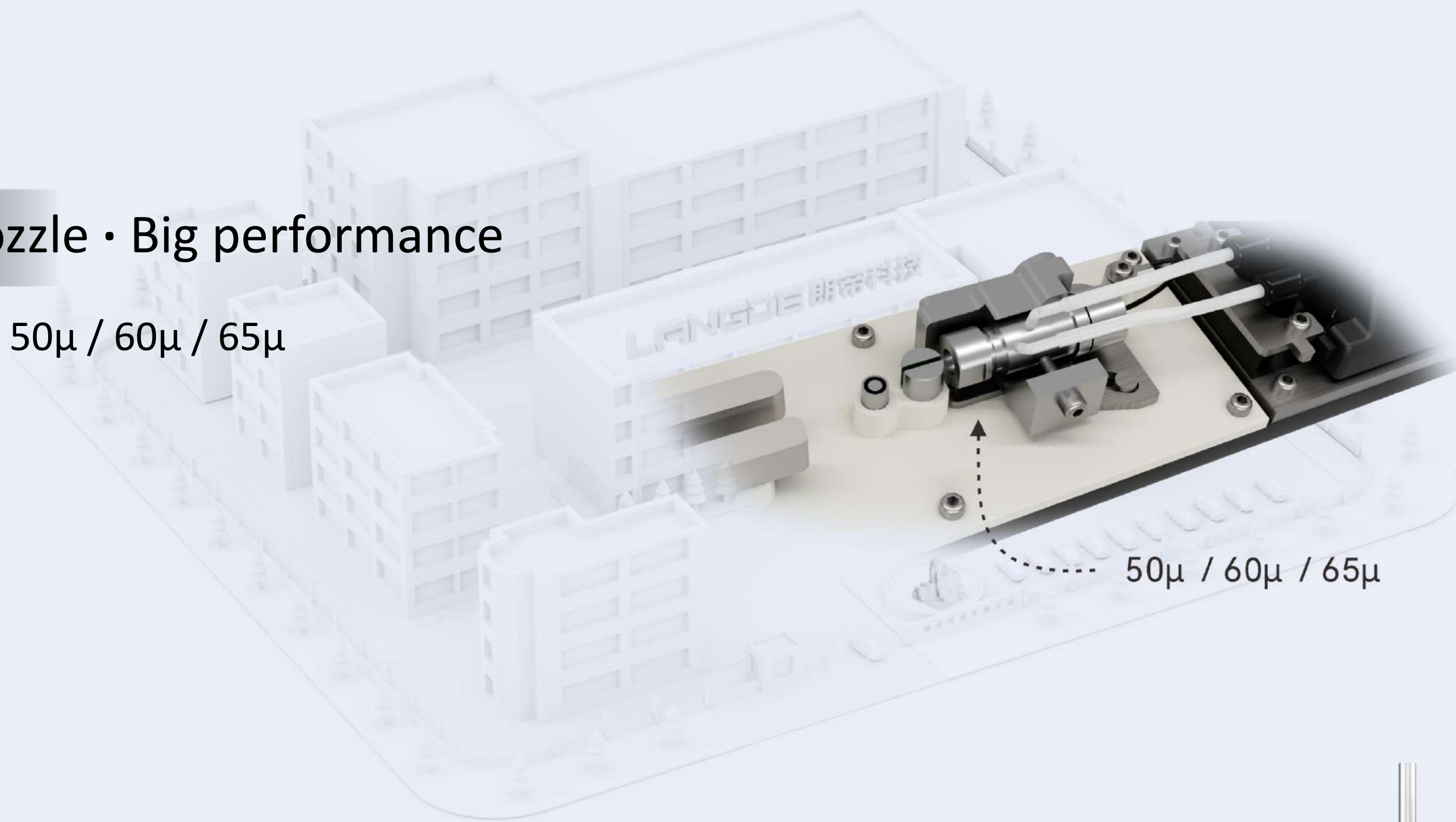


LD760 white ink printer

LANGDE® 朗帝科技

Small nozzle • Big performance

Nozzle size: 50 μ / 60 μ / 65 μ



LD760 white ink printer

LANGDE® 朗帝科技

Innovative technology · Reliable operation

Three sets of intelligent stirring systems and self-awakening system prevent ink from settling and allow it to be stored for a long time.



LD760 white ink printer

LANGDE® 朗帝科技

Unique · Power on/off program

The uniquely designed on/off program keeps the nozzle and the duct clean and free of clogging. It can be started at any time.



Printer speed



LANGDE®朗帝科技

LD CIJ Print Speed (60dpi)

m/min

Line	Font	High	Special mode	960HR	960UHS	960	910	S4	900&S1	850
				speed	speed	speed	speed	speed	speed	speed
1	5*5	5		510	392	325	325	325	325	325
	5*7	7		410	375	315	315	315	315	315
	5*9	9		320	260	245	245	245	245	245
	4*7	7		425	388	315	315	315	253	315
	7*9	9		320	260	245	245	245	245	245
	7*10	10		243	184	145	145	145	145	145
	8*12	12		230	174	145	145	145	145	145
	8*16	14		160	139	122	122	122	122	122
	7*8 chinese	8		410	315	256	256	256	256	256
	8*8chinese	8		410	210	180	180	180	180	180
	9*9chinese	9		273	250	245	245	245	245	245
	10*10chinese	10		273	180	150	150	150	150	150
	12*12chinese	12		230	177	138	138	138	138	138
	16*16chinese	16		140	108	80	93	93	93	93
	20*20chinese	20		60	46	42	42	42	42	42
	24*24chinese	24		48	41	37	37	37	37	37
	32*32chinese	32		30	24	20	20	20	20	20
	10*16	16		150	115	95	95	95	95	95
	12*16	16		145	126	122	122	122	122	122
	12*20	20		60	46	40	40	40	40	40
2	5*5	12	2*5	260	198	145	145	145	145	145
	5*7	16	Double row	140	130	124	124	124	124	124
	5*9	18	Double row	113	87	55	55	55	55	55
	4*7	16	Double row	145	130	128	128	128	128	128
	7*9	20	2*9	113	87	70	70	70	70	70
	7*10	22		63	48	35	35	35	35	35
	8*16	32		34	25	20	20	20	20	20
	12*16	34		30	23	20	20	20	20	20
	8*8chinese	18		120	92	70	70	70	70	70
	10*10chinese	22		63	48	38	38	38	38	38
3	5*5	17/19	3*5	172	132	60	60	60	60	60
	5*7	25	3*7	140	108	45	45	45	45	45
	4*7	25		60	48	45	45	45	45	45
	7*9	31		35	30	21	21	21	21	21
	7*10	34		30	24	20	20	20	20	20
	8*8chinese	28		35	30	40	40	40	40	40
4	5*5	26		48	35	27	27	27	27	27
	5*7	34		30	26	18	18	18	18	18
	4*7	34		30	26	18	18	18	22	18



Plant overview



Reception





SMT workshop





Non-dust workshop



Patent & Software Copyright



Triple Certification



ite rev 3.34

Management system certification



CCCI

信息技术服务管理体系认证证书

注册号: 0212023ITSM0146ROMN

兹证明

朗帝科技有限公司

统一社会信用代码: 913303047245298155
注册地址: 中国·浙江省·温州市瓯海区新桥街道高翔工业区大雅路3号
办公地址: 中国·浙江省·温州市瓯海区新桥街道上兴乡路397号(原温州市瓯海区新桥街道高翔工业区大雅路3号)

信息技术服务管理体系符合标准

ISO/IEC 20000-1:2018

认证范围如下:

向外部客户提供喷码机软硬件的运行维护, 智能制造系统、智能设备、
工业互联网系统软件运行维护的服务管理体系

本证书有效期自 2023 年 8 月 10 日至 2026 年 8 月 9 日

认证范围涉及法律法规要求的行政许可、资质许可、强制性认证的, 证书与资质共同使用有效。
在正常接受年度审核的情况下, 与年度监督保持通知一并使用有效。
本证书信息可在国家认证认可监督管理委员会官方网站 (www.cnca.gov.cn) 上查询。



华夏认证中心有限公司
中国北京市丰台区北四环中路 211 号太极大厦
http://www.hxc.com.cn

总经理: 

颁证日期: 2023 年 8 月 10 日



中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C021-M



CCCI

信息安全管理體系认证证书

注册号: 02123110248ROS

兹证明

朗帝科技有限公司

统一社会信用代码: 913303047245298155
注册地址: 中国·浙江省·温州市瓯海区新桥街道高翔工业区大雅路3号
办公地址: 中国·浙江省·温州市瓯海区新桥街道上兴乡路397号(原温州市瓯海区新桥街道高翔工业区大雅路3号)

信息安全管理体系符合

GB/T 22080-2016/ISO/IEC 27001:2013

认证范围如下:

与喷码机的设计开发, 智能制造系统、智能设备、工业互联网
系统软件研发相关的信息安全管理活动

(适用性声明版本: A/0)

本证书有效期自 2023 年 8 月 10 日至 2026 年 8 月 9 日
本证书将于 2025 年 10 月 31 日随 GB/T 22080 2016/ISO/IEC 27001:2013 标准同时失效
认证范围涉及法律法规要求的行政许可、资质许可、强制性认证的, 证书与资质共同使用有效。
本证书不承诺适用性声明中引用标准的符合性。
在正常接受年度审核的情况下, 与年度监督保持通知一并使用有效。
本证书信息可在国家认证认可监督管理委员会官方网站 (www.cnca.gov.cn) 上查询。



华夏认证中心有限公司
中国北京市丰台区北四环中路 211 号太极大厦
http://www.hxc.com.cn

总经理: 

颁证日期: 2023 年 8 月 10 日



MEMBER OF MULTILATERAL
RECOGNITION ARRANGEMENT



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C021-M

After-sales service certification



CONTACT US !

Tony Teng CEO

+86 13857757781

yongt@pmj.cn

Allie Zhou Sales

+86 15158686279

allie@langdetech.com

www.langdetech.com

