SMTJET NEW MODEL
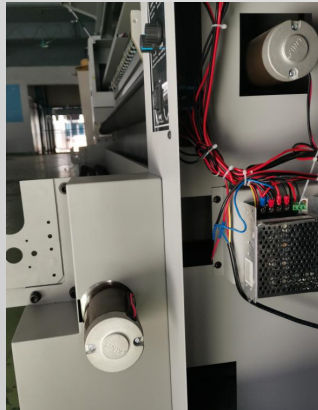# STARFIRE 3304

Strong / Magnificent / Advanced

Main Improvements Compare with Old Model：

1. 7000W Large Power Infrared heating and cooling fan, equals to double of old type

2. Feeding system improved 3 items:
   1) Add one motor for media holding roller, for movement direction and speed adjusting
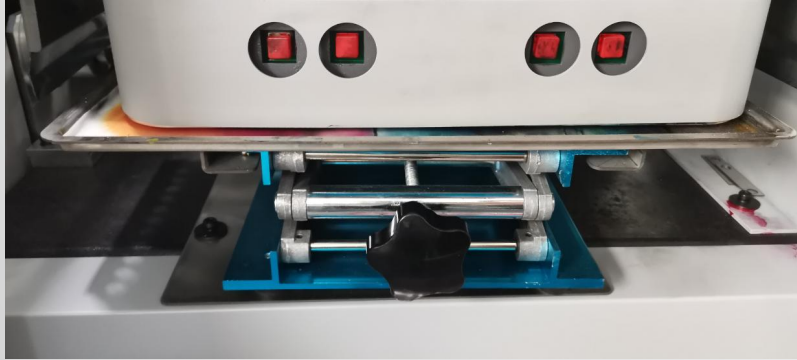
2) Pressure Media Roller fixed way improved, make it more straight and accurate.

3) Back plate of platform improved to be arc shape, more smoothly.
 Also metal plate extend to pinch roller's place, to be a whole part.

3. Ink Cartridge holding tray design improved, more durable(same as 6H and 5M model)
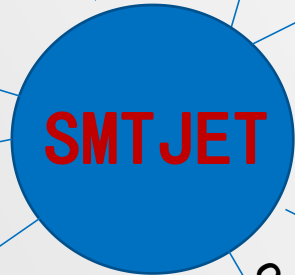

4. Platform air-suction cabin sealed with glass glue, prevent air leackage, media suction better.

5. Change the flat wire to High-flex data cable, lifetime longer.

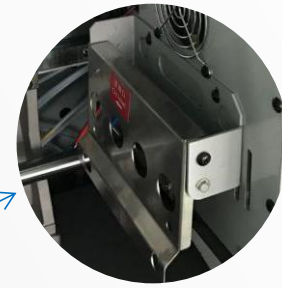6. Use Teflon ink tube, higher hardness, more wear-resistant.

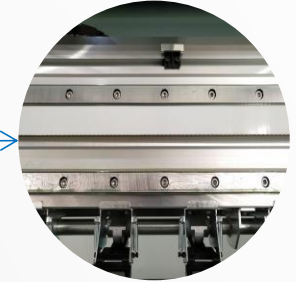7. Machine more heavy, outlook more beautiful and magnificent.
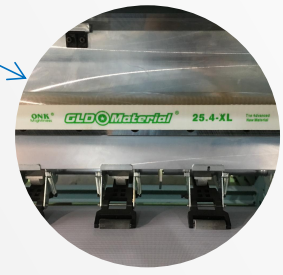
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Starfire 1024
10PL/25PL Printhead

Japan Panasonic
Servo Driver

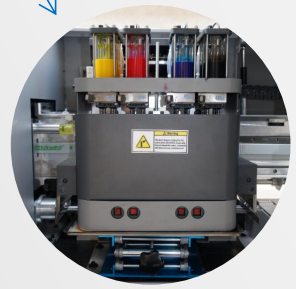Anti-collision system

Japan SHARP detective sensor

SMTJET

Hiwin Double mute guide rail

Japan SMC Negative pressure Meter

Taiwan ONK Synchronizing Belt

Japan Panasonic Servo Motor

German IGUS Chain

Circulation ink bottle

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Machine Structure

Ink Circulation system

Electrical System

Ink & Cost

Service & Maintenance

Machine Structure

Main Steel Beam

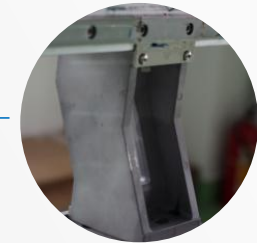25*20*0.6CM Heavy-duty steel, more stable, high precision and strong pressure resistance.

Wholly processed by professional high precision CNC milling machine, quality assurance

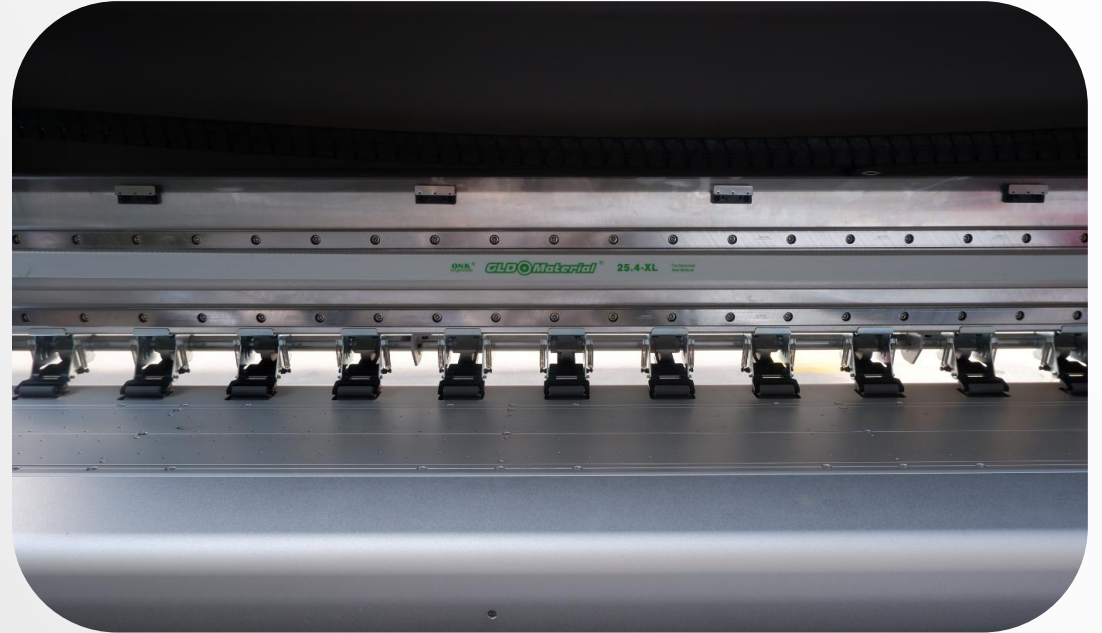Deformation resistance to pressure

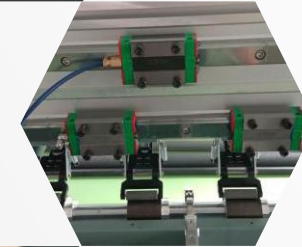Optional take up system

Segmented Platform Suction

All Aluminum Alloy Platform&Beam

![SMT JET 锐智科技]

Imported double mute linear rail，
with high rigidity, stablity & pressure
resistance,effectively reduce the
weight of carriage station.

Double Guide Rail

Carriage fixed by 3 pcs of
imported silder with triangle.
More stable&fluency, effectively
improved the printing precision
and speed.

German IGUS high-strength tank chain: heat and wear-resistant, flexible movement, protection of ink tubes and lines.
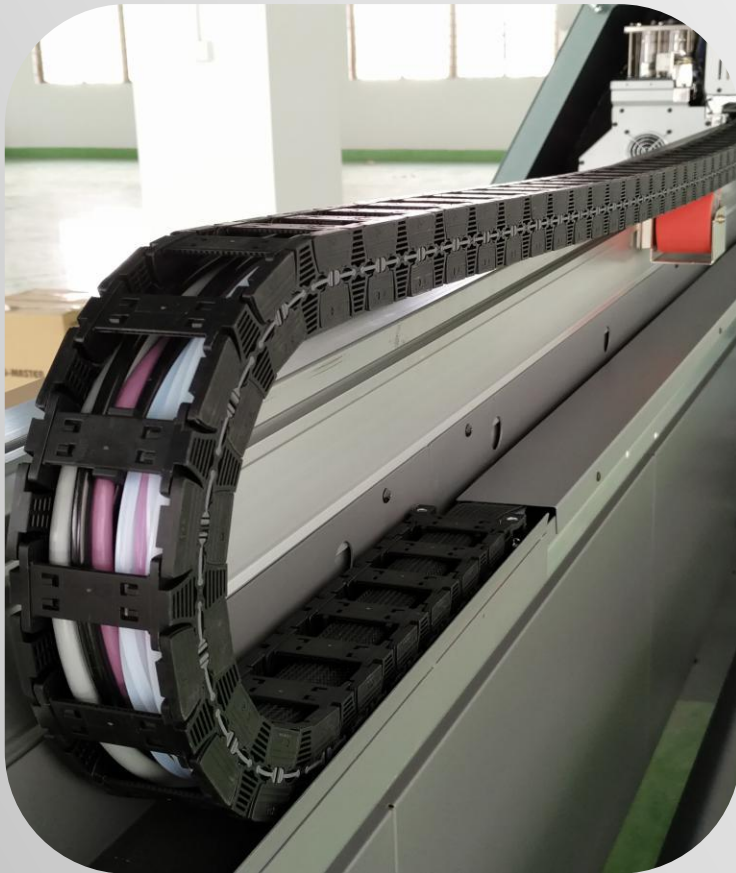
Taiwan ONK Timing Belt: high temperature,wear & corrosion resistant, with high strength toughened steel core, achieves a longer lifetime.

Tank Chain & Belt

Pinch Roller
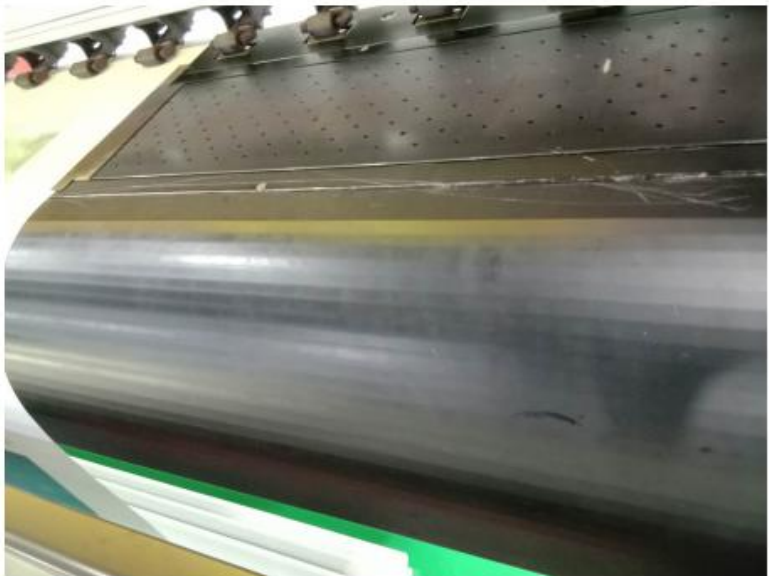
Improved Feeding System

7000W Infrared heating

3 Section Heating

3 sections of heating system: back arc plate, middle printing platform and front arc plate heating, efficiently improves the drying speed to make printing more efficient & time saving.

Normal Machine : Metal heating plate

VS
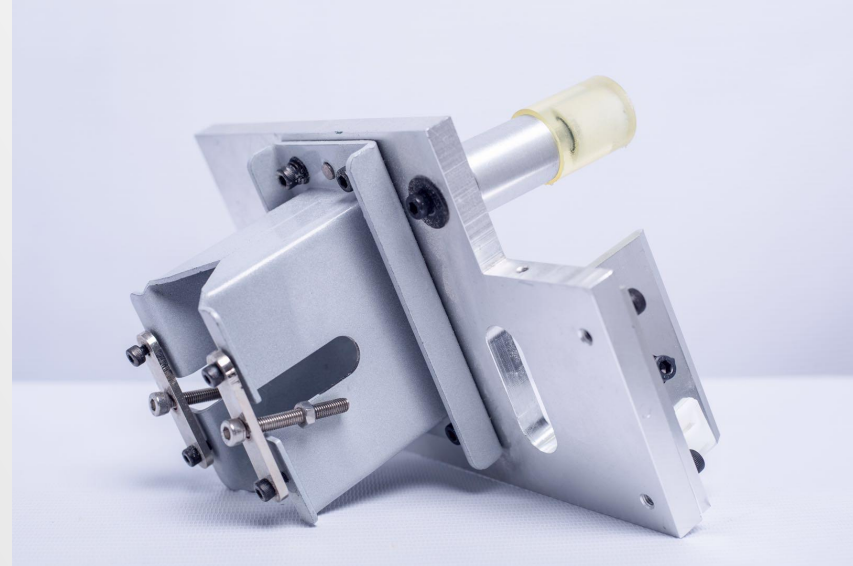
SMTJET Machine : Aluminum Alloy heating plate

Aluminum Aloy Gear Bracket

Bracket mounting plate for X axis active wheel & driven wheel all using 10mm thickness all aluminum alloy material and surface processed with enamel, not only stable but also Anti-oxidant & corrision, also easier to clean and lifetime longer.

X Axis Driven Wheel Mounting Bracket

X Axis Active Wheel Mounting Bracket

Poweful Ink Circulation System

large capacity capsule filters, prevent impurities come into nozzle

Large-capacity color separation circulation ink cartridges, ensures long time printing without any ink break

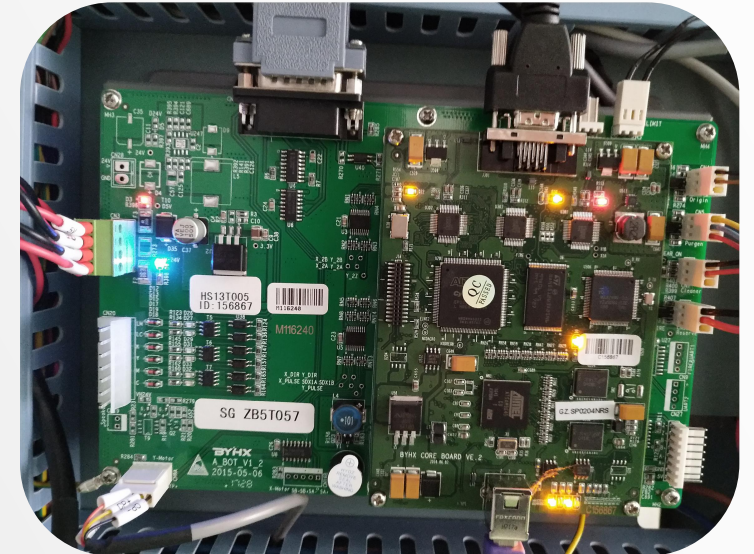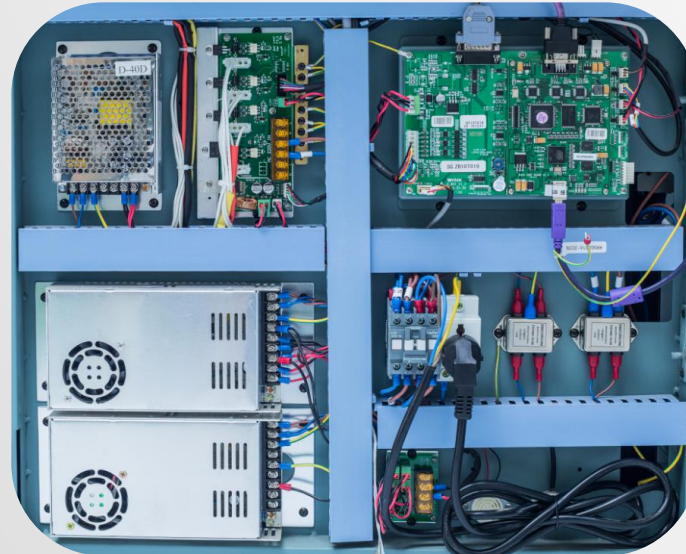Double large-capacity negative pressure gas tank, enhances the buffer time of pressure, make ink circulation more stable & fluency.

Electrical System

Beijing BYHX board (best board in China) , with a high degree of market acceptance, output standard and stable, low failure rate, higher accuracy & speed
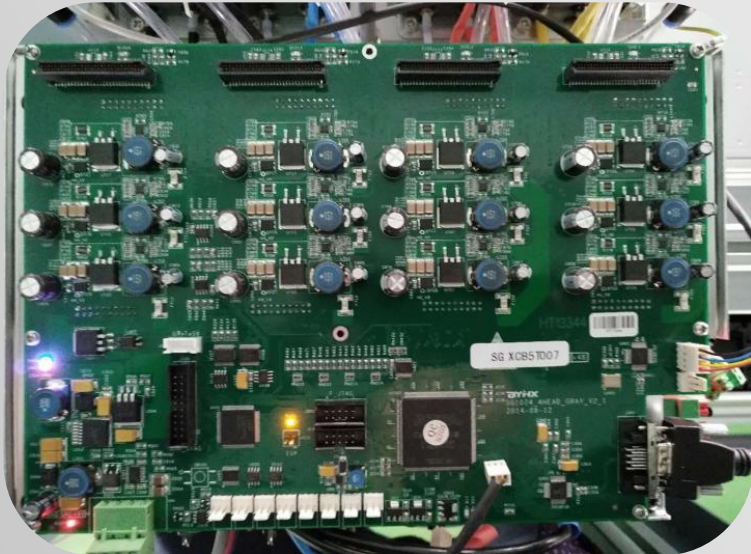
Motor using imported bearings and oil seals, strictly dynamic balance tested before delivery, with low noise.

Powerful Panasonic servo motor imported from Japan,quality assured, more stable and fast response, Anti-jamming and jitter & noiseless, suitable for long time working.

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2-way/3-way solenoid valve. Strong corrosion resistance and high pressure resistance, with long lifetime.

Japan SMC Negative Pressure Meter

Braking resistor

Consumes the electric energy generated by motor decelerates, realizes a quick stop, stabilizes the internal current, ensures the servo motor and server operates stably.
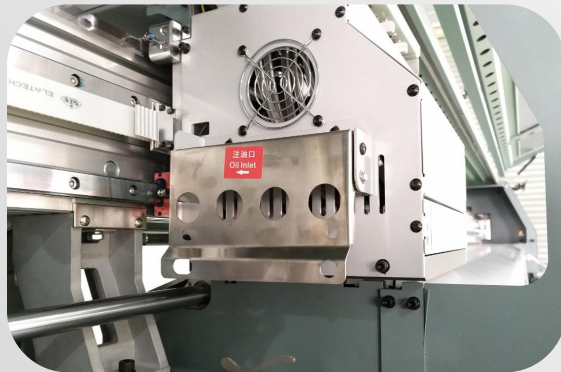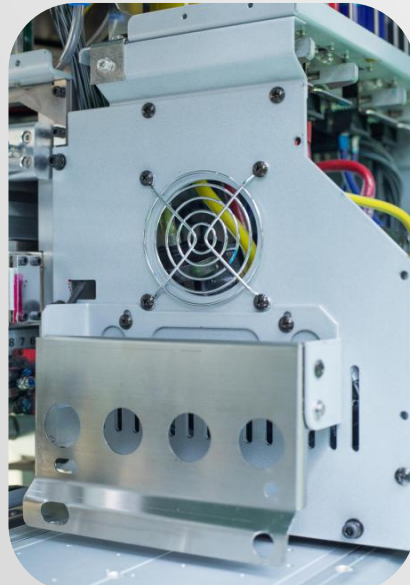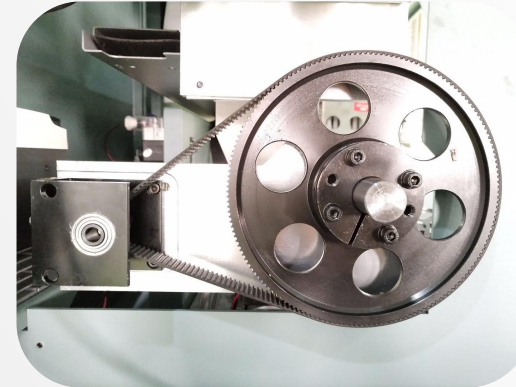

EMI Filter

Leackage Protector

Anti- collision system

Y Axis big diameter gear

Antistatic magnetic ring
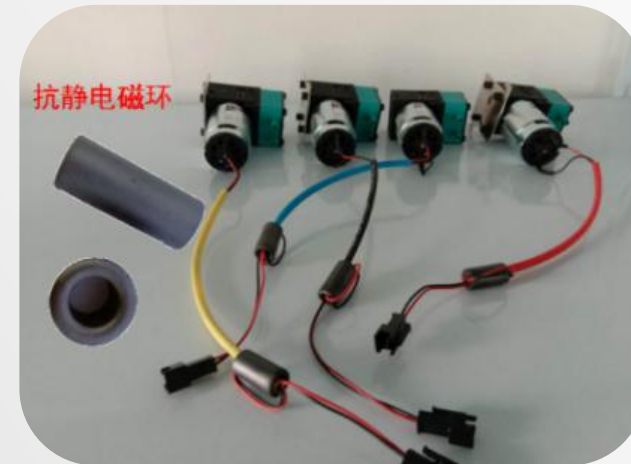
抗静电磁环

Starfire Printhead

- **Inner Ink Heating & Circulation System, can use the high density & fast drying ink, prolong machine working time and more ink saving, continuous printing for 10 hours without stop.**

- **Variable Ink drop technology, 10PL small ink drop, 25Pl middle and 65PL big ink drop. Both light & deep color printing can achievea bright and good color effect.**

- **Printhead is detachable, parts are removable and repairable. Lifetime 5-8 years. Using cost lesser.**

- **1024 nozzles, high density designed, achieve high speed & high resolution printing, and long lifetime.**

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Dimatix

StarFire ™
SG-1024

Ink-in and out tube
ink circulation

simplified electric
connector

Multiple chip, but
one electric voltage

shell :
avoid liquid splash

Four replaceable
printing modules

precision
contraposition

Single nozzle plate

protection shell

presition contraposition

replaceable nozzle plate

3 screws

up/down working surface
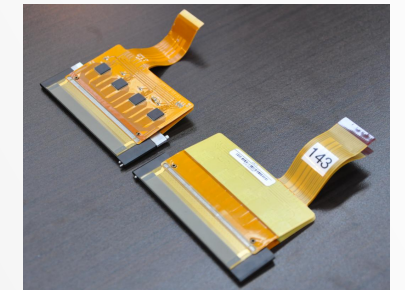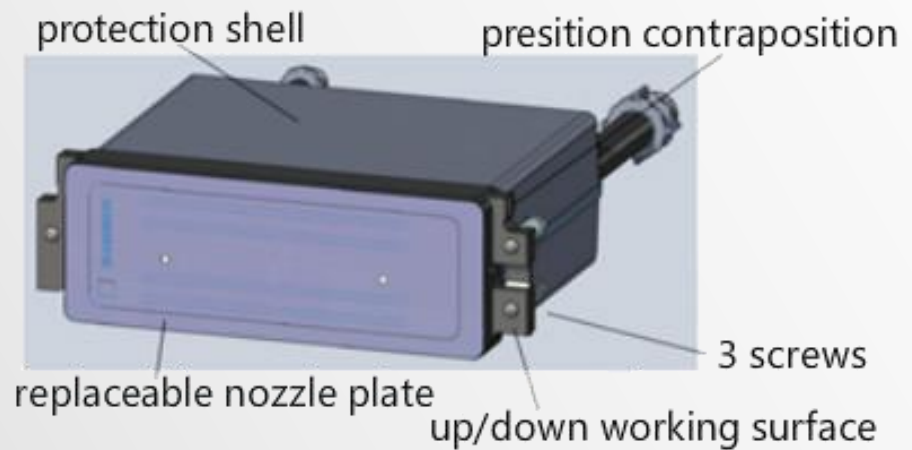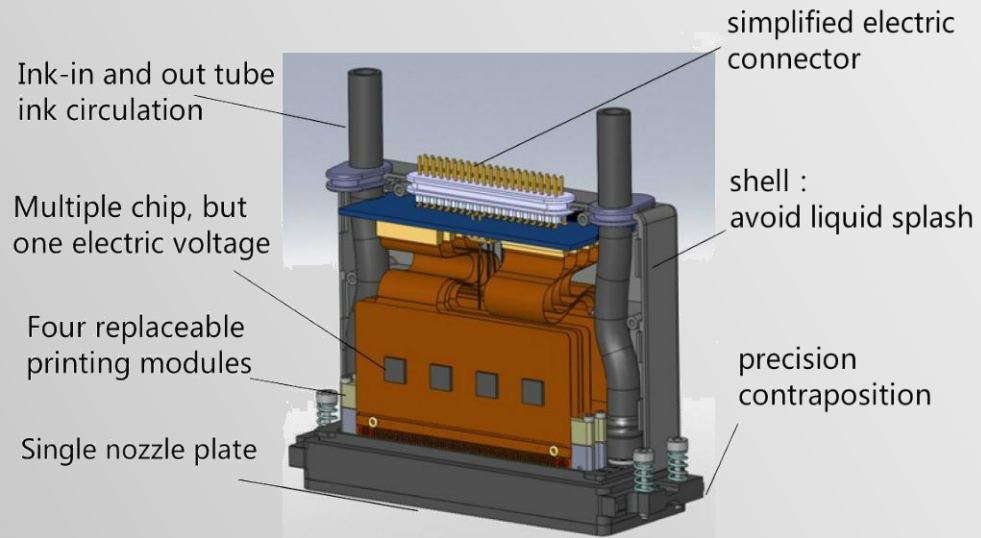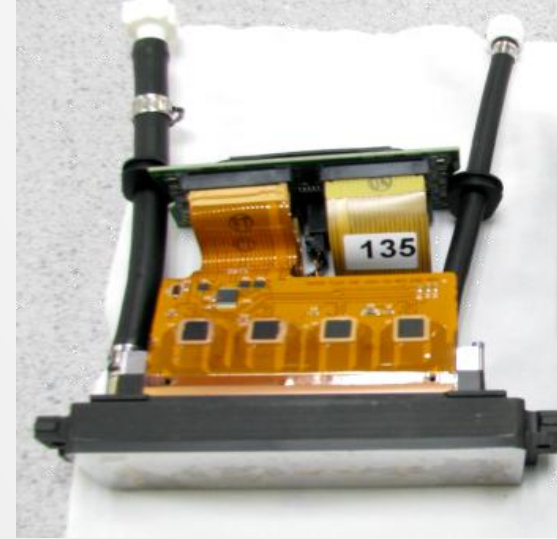
Printhead Comparison

Printhead Company	Printhead type	Nozzle quantity	Ingination frequency	Resolution	Drop size	Jet speed	Servo motor voltage	Romovable	Reparable	Ink consumption per sqm
United States Starfire	Spectra 512	512	25khz	200dpi	35PL	8m/s	110-130v	NO	NO	13ml
	StarFire SG1024 MC	1024	50khz	400dpi 128×8	25PL	8m/s	110-130v	YES	YES	9ml
	StarFire SG1024 SC	1024	50khz	400dpi 128×8	10PL	8m/s	110-130v	YES	YES	9ml
Japan Seiko	SEIKO 510	510	18khz	200dpi	50PL	7m/s	36v	NO	NO	16ml
Japan Konica	KM 512i	512	20khz	360dpi	50PL	6m/s	36v	NO	NO	16ml
Japan Konica	KM 1024i	1024	12.8khz	180dpi×2	30PL	6m/s	110v	NO	NO	16ml

Print 720000㎡ Printhead Using Cost :

	Polaris-8H	XAAR600-12H	Konica1024-8H	Seiko-4H	Starfire-4H	Espon DX5-1H
Need Change Heads' Amount (2 Year)	1-2	1-2	1-2	4-8	0	3
Cost for Heads (2 Year)	$2300	$1200	$2000	$4000	$700	$3000
Good Color effect Production Speed	130㎡/h	85㎡/h	105㎡/h	80㎡/h	250㎡/h	15㎡/h
Print 720000㎡ takes time	4 Year	6 Year	5 Year	6 Year	2 Year	33 Year
Using Cost/ 720000m2:	$4600	$3600	$5000	$12000	$700	$49500

Ink & Cost

Original SMTJET ink is high-viscosity & high-color density ink, ink toner content is double of normal ink, 2 pass effect equals with normal 3&4 passes, more ink-saving and very good fluency. Matching with original ICC profile, images colorful and vivid.
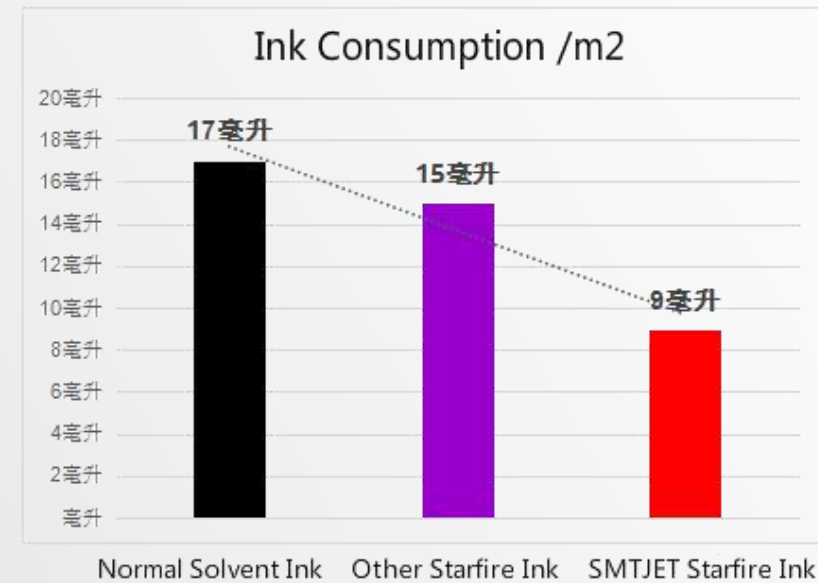
Yellow   Megenta   Cyan   Black

SMTJET machine's countinuous ink circulation system, match with head internal
heating & circulation function, make it able to use high density ink.
Achieves over 10 hours countinous printing with low ink consumption.
Ink cost less than $0.05 /㎡.
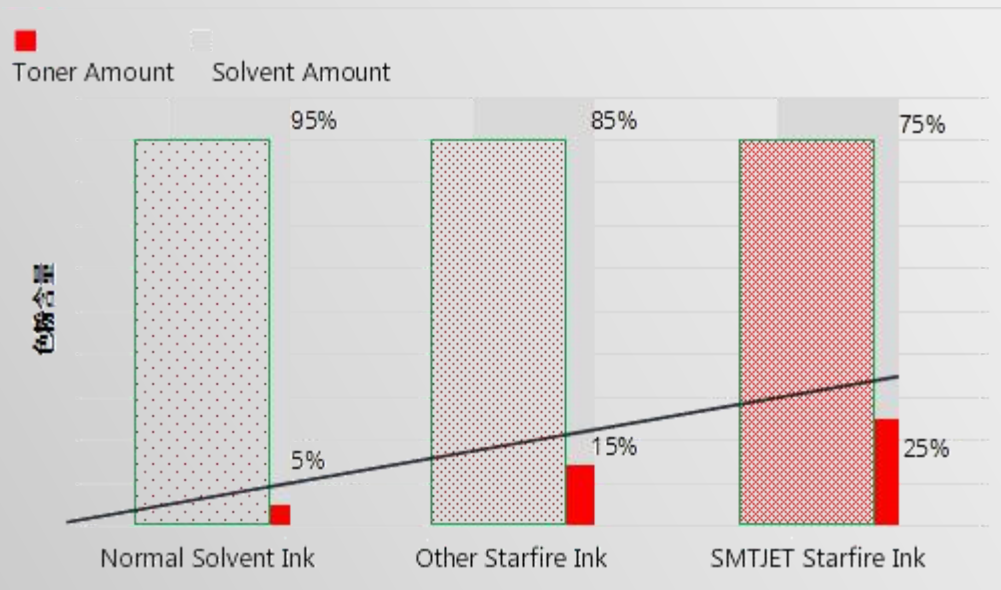
Normal solvent printer ink consumption about 16ml/m², ink cost $0.1/m²
SMTJET Starifre printer ink consumption 7ml/m², ink cost less than $0.05 /m²

**If print 30000m² every month,
ink cost can save $18000 every year**

Customer Uses Case: Ink consumption: 7ml/m²
(656+2558+6051+7108)÷2340.64≈6.995≈7ml

RIP Software

Maintop 6.0：
color better,
speed faster,
Incresed fuction
of cropping image.

Standard ：Maintop

Optional Photoprint

Printer software also incresed function of counting ink consumption amount & counting the amount of square meters printed.

SMTJET SJ21S 3304

	Heads	2H	4H
Printing Speed	2pass	124㎡/h	248㎡/h
	3pass	89㎡/h	178㎡/h
	4pass	69㎡/h	138㎡/h
Printhead		STARFIRE 1024 10PL/25PL Printhead	
Image Format		BMP/TIFF/EPS/PDF/AI/JPEG	
Media	Printing width	3.2M	
	Printing material	PP Paper, Vinyl Sheet, Film, Coated Paper, Banner, Canvas, Adhesive Vinyl Sheet, Banner	
	Ink type	Eco solvent ink / Solvent ink	
Take up device		Take up system (Optional)	
Heating& Drying		Front& Back heating , Infrared Drying	
RIP Software		Maintop 6.0, Photoprint / Onyx (Optional)	
Control System		WIN7/WIN10 64 bit System,CPU：I5 Above, Ram:4G Above, USB2.0 Port	
Power Supply		AC220V，50H±10％	
Working Condition		Temperature 20℃-30℃，Humidity60％-70％	
G.W/N.W		1200kg/1000kg	
Packing Size		4910*1100*1730mm	

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Details Deciding Quality | Stable Ensuring Future
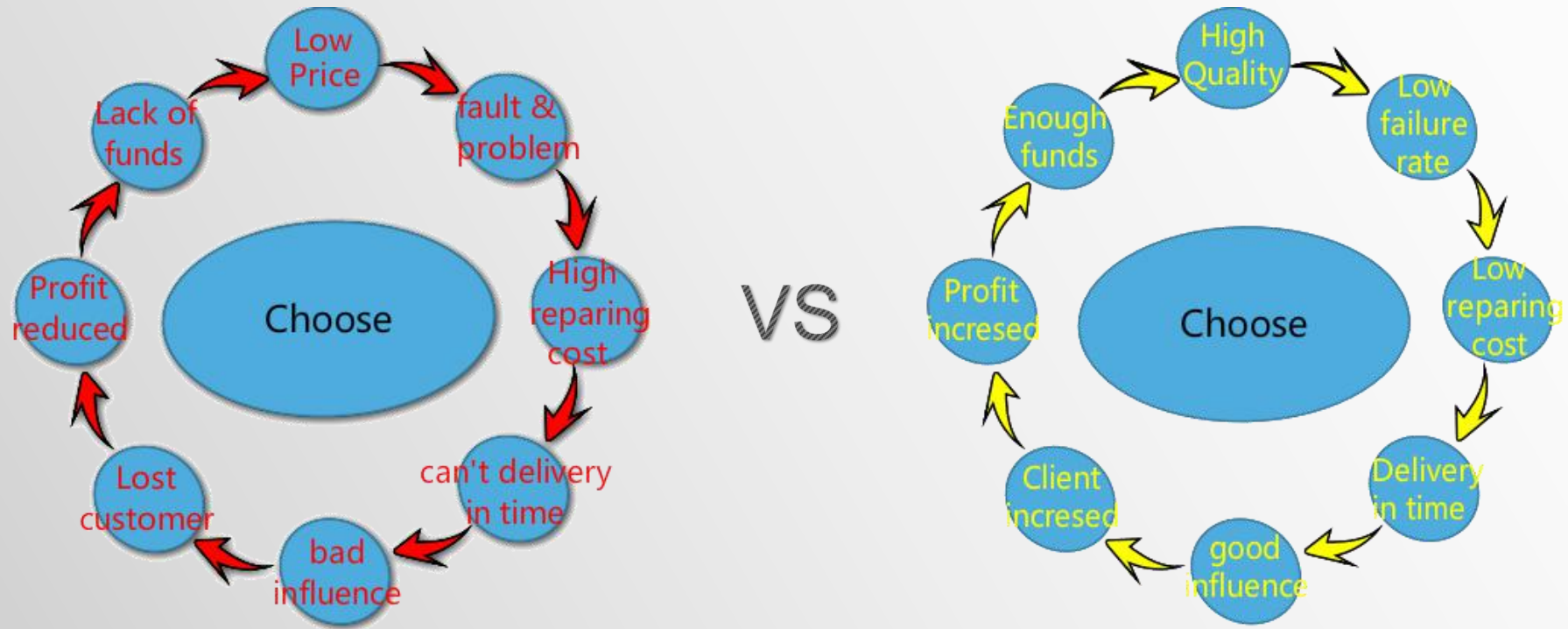
With the competition becoming increasingly fierce, only design details and spare parts' choosen can make one machine stand out from many similar brands.
SMTJET pay attention to every detail, adopt best parts to make sure machine stable enough, also avoid fault & problem happening in future.

SMTJET Professional Technical Team

- Professional engineers with 5-10 years' experience.

- Regular training and technical communication.

- Online technical support or teamviewer support.

- Training or installing printers in foreign countries.

- One year warranty for the eletrical parts and boards.

Machine Daily Maintenance

1. Machine working Temperature: 20-30 ℃ , Relative humidity: 40% - 70%.
2. Connected to voltage stabilizer and well grounded before turn on machine.
3. After machine installed, do nozzle cleaning with cleaning solution by syringe.
   Each time use 40ml flush, do once every 10 minutes, total 3-4 times.
   Then start to install printhead, thus can effectively avoid head block.
4. Do test print first before print image, if condition not good, purge ink for
   a while and test again, more serious situation pls uninstall printhead and
   do cleaning like above step 3.
5. Recommend to choose middle speed, especially at the beggining of printing.
6. After working finished every day, make sure turn off machine power,
   close the valve of the 4 ink cartridge bottles, press servo release button.
   Move carriage to the left side. Put non-woven cloth onto the carriage tray,
   inject with cleaning flush, to seal the printhead bottom, avoid ink drying lead
   to head block.
7. It's a must to use the original ink, otherwise will damage printhead.

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Thanks

www.smart-jet.com