

LQ-CI6-1200E

Type flex printing machine(plastic)-6 color



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Characteristic

1. The machine introduction & absorption of European technology / process manufacturing, supporting / full functional, has the following features:
2. After mounting the plate and registration, no longer need registration, improve yield;
3. Replacing 1 set of Plate Roller (unloaded old roller, installed six new roller after tightening), only 20 Minute registration can be done by printing;
4. The machine first mount plate, pre-trapping function, to be completed in advance prepress trapping in the shortest possible time.
5. Maximum production machine speed up 200m/min, registration accuracy $\pm 0.15\text{mm}$.
6. The overlay accuracy does not change during lifting running speed up or down.
7. When machine stop, Tension can be maintained, the substrate is not deviation shift;
8. The whole production line from the reel to put the finished product to achieve non-stop continuous production, maximize product yield;
9. With precision structural, easy operation, easy maintenance, high degree of automation and so on, only one person can operate.

Production technology

Single Unwind system--Dance roller--Auto EPC--Printing Unit (6color)--Dry system--Cooling Traction Unit --Single Rewind system

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Main parameter

Model	LQ-CI6-1200E
Color	6 color
Max. Web Width	1250mm
Max. Printing Width	1200mm
Printing Material	BOPP,PET,PVC,PE, NY. Heat shrinkable film.PE breathable film Etc
Max .Machine Speed	250m/min
Max. Printing Speed	200m/min
Max. Unwind/rewind Dia	Φ800mm
Printing repeat	350-800mm
Gearing of printing cylinder	5mm (Each Increase/decrease 1 tooth, the repeat length increase/decrease 5mm
Plate Matching Way	Crosswise: ±15mm Lengthwise: ±10mm
Printing way	Full width 6 color on one side
Printing plate thickness	Photopolymer plate 1.7mm or 2.28mm (As customer requirement)
Printing cylinder	Within 40cm 6 pcs
Ceramic Anilox roller	650LPI*3 PCS ,600LPI*2 PCS 400LPI *1PCS (as customer's requirement)

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Detail configuration

Unwind Unit

1. Single unwind central drive , with servo motor , Inverter control Closed-loop
2. Tension control : Adopt Light float roller . tension auto compensation , close-loop control
3. Air shaft loading material
4. EPC (edge position control): Set and run four roll type automatically EPC ultrasonic detector system; With manually/automatically/ central return function, can adjust left and right around ± 65 mm width.

Printing Unit

1. Type: CI Flex Printing Machine
2. Color: 6 Color
3. Drive mode: Gear Drive
4. Drive motor: Servo Motor drive
Inverter control close loop control
5. Printing way : 1) Plate -Photopolymer plate
2) Ink--water base or solvent ink
6. Printing Repeat: 350-800mm
7. Gearing of printing cylinder: 5mm
8. Big Central Drum: 1) Surface of central press roller with constant temperature
2) ± 0.0015 mm
3) Accuracy control: within $\pm 1^{\circ}\text{C}$
4) $\Phi 1600$ mm
5) Made in China
9. Cooling System : 1) Constant temperature (inside with heating hole
2) Temperature ,controller, temperature-controlled meter
10. Feeding Traction Roller: Rubber pressure roller , Pneumatic type control opening and closing
11. Printing cylinder: Within 40cm 6 pcs for free
12. Ceramic anilox roller:
 - 1) Length: 1550mm
 - 2) The precision of dynamic balancing: 10g

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3) Automatic mixing the ink when halt machine

4) 650LPI 3 PCS . 600LPI 2 PCS. 400LPI 1P

13. Doctor blade : 1) Chamber blade 6 pcs

2) Both way blade aluminium alloy ink box

3) Closed ink tank(original import use life 30-60days)

4) blade open and close by manual (Safety)

14. Hydraulic pressure automatic positioning:

1) when it start ,hydro-cylinder push ceramic anilox roller near the printing cylinder inking, plate cylinder near to central drum printing, locked hydro-cylinder after printing.

2) when it stop ,automatic from the pressure ,locked hydro-cylinder that push to ceramic anilox roller left plate cylinder, plate cylinder left central drum roller, still match gear teeth ,automatic reset when opening printing .

15. Ink supply device: Two-way pneumatic diaphragm pump for ink cycle supply automatically, long life diaphragm printing ink viscosity automatic tracking controller.

16. Dryer between each color:

1) Electrical heating, transformed into circulating air heating by heat exchanger. Temperature control adopts intelligent temperature control, contactless solid-state relay, set 2 control, suit to different technology、environment production, save energy consumption, enforce PID temperature control and temperature control precision, $\pm 2^{\circ}\text{C}$

2) Dry box between each color has windleitung and return wind pipe.

3) Stainless steel cover, aluminium alloy spray nozzle

Drying system

1. Hot air mode:

Electrical heating, transformed into circulating air heating by heat exchanger.

Temperature control adopts intelligent temperature control, contactless solid-state relay, set 2 control, suit to different technology、environment production, save energy consumption, enforce PID temperature control and temperature control precision, $\pm 2^{\circ}\text{C}$

2. Drying oven structure:

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- 1)Drying oven inner container
- 2)heat exchanger
- 3)muzzle are all made of stainless steel plate
- 4)Dry oven has independent fan for intake air and independent fan for air exhaust.By control the supply air rate and adjust air damper, the machine printing process will get the best wind speed,wind pressure,higher drying oven heat efficiency, and save energy consumption; Cylinder control the drying oven opening and closing, with guard bar and walkway floor

Cooling traction unit

- 1.Cooling steel roller:surface process Hard chrome plating treatment,outer connect water cooling recycle .
- 2.Rubber pressure roller:pneumatic controller open and closed
- 3.Drive controller:
servo motor
Inverter control, no need with feedback card,close-loop control
- 4.Drying box tension controller:adopt super light float roller, and tension automatic compensation, closed-loop control;

Image static monitoring system

- 1.Display resolution: 1280*1024
- 2.Enlargement factor: 3-30 (Enlargement factor of area)
- 3.Display mode: Full screen
- 4.Image capture interval: decided by PG encoder/ gear sensor position signal
- 5.Camera check speed: 1.0m/min
- 6.Check range: depends on the material width, arbitrarily setting. It is ok for adjustable point monitor or automatic back and forth.

Single rewind

- 1.One unit use center drive rewind,servo motor ,Inverter closed-loop control.
- 2.Tension control: adopt super light float roller, and tension automatic compensation, closed-loop control;
- 3.Automatic stop machine when break the material; When machine stop, keep



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tension and avoid the material loose or line deflection.

4. Air shaft loading
5. Inspection light

Electrical Control System

1. Main panel: Electrical cabinet designed as IP21 safeguard grade level
2. Whole machine system is controlled by Siemens PLC programmable, 10 inch Human-computer touch screen (Taiwan Brand) set / modification data, run machine parameter monitor / record, also including online help, alarm hint, historical data;
3. The machine tension system is controlled by the super light float roller closed-loop, and PLC control the human-computer touch screen display and setting; Keep tension when machine stop, automatic halt the machine when out of material;
4. Machine inching running, group control linkage; Home screen can imitate and show the condition of machine working process, Every power dot has working indication (Green light always on), Stopping indication (Red light always on), Failure indication (Red light twinkle), One roll material length, Accumulative total, Line speed, PV of Tension control point;
5. Temperature control unit has independent temperature control watch. It shows the SP, PV. It can monitor all fans working condition of dry oven, can warn (non stop machine), alarm (stop machine) function, and alarm remove after fault clearance;
6. Machine drive adopts alternating current (AC) vector variable frequency motor, which closed-loop control with feedback cards;
7. Operation control panel: Every device part set electronic control, air control, instrument, indicator light, switching button, master control and each operation surface can be independent controlled, and set multi-button emergency stop;
8. Single header pump for water, electricity, air exits and entrances;
9. The main electrical equipment component accord with CE or UL quality certification grade products;
10. Anti-explosion lighting lamp 4 Pcs

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Components list

Human-computer Interface	Siemens. Germany
PLC programming controller	Siemens. Germany
Relay	
Contactora,Button,Potentiometer	Schneider. France
Breaker	Schneider. France
Temperature controller	Schneider. France
Inverter	Huichuan. China
Servo Motor	Domestic
Guide Roller	Domestic
Auto EPC(Ultrasonic detector)	BST
Photoelectric Rotary Encoder	Japan
Limited switch	Schneider. France
Fixed position proximity switch	Leuze .Germany
Still image monitor	Kesai.China
Chamber blade	Changhong.(Denmark technology)
Air shaft	Domestic
Ceramic anilox roller	Japan
Static Brush	France
Main pneumatic component	AIRTAC, Japan
Low friction cylinder	Fujikura. Japan
Main bearing	FAG. Germany
Electrical Proportional Valve	
Electrical heating temperature control system component	Domestic
Gear Anilox roll/printing cylinder / central drum of bearing	Europe

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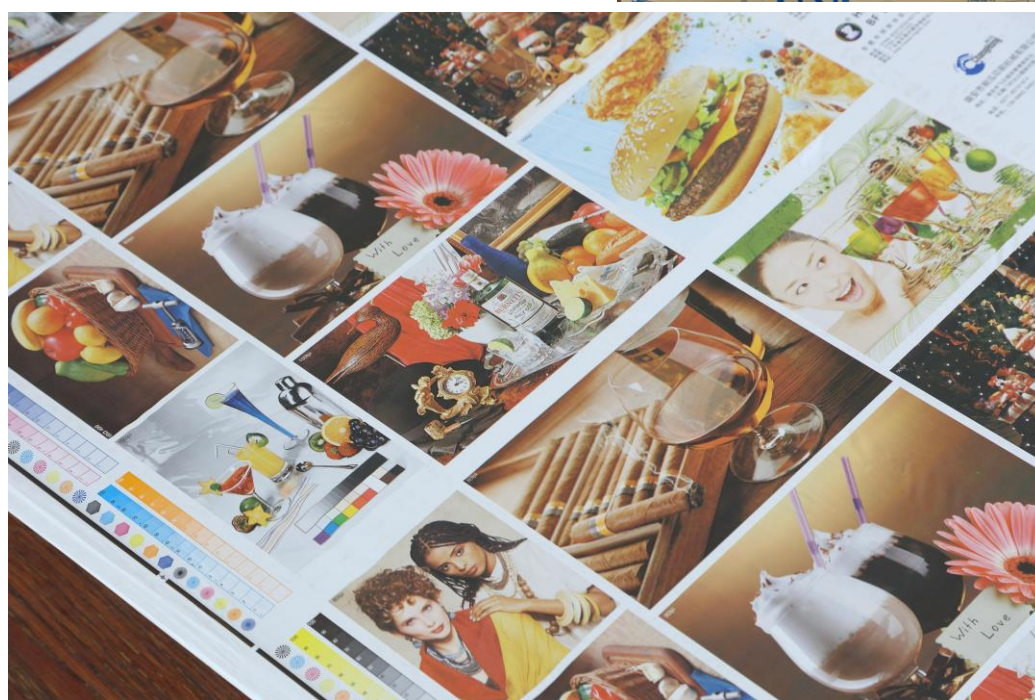
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Printing samples



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