

# KGK JET CCS3100

Small Character Industrial Ink Jet Printer



<http://www.kgkjetindia.com/>



Removable 10.4" coloured touch panel

IP65 compliant

Control 16 units by 1 master

Powered by SMS  
(Service Management System)

Designed for high speed



Print-head with lense to see drop formation



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The removable 10.4 inch color touch screen enables mobility.  
Up to 16 units can be controlled by one master using multi-control (slave function).



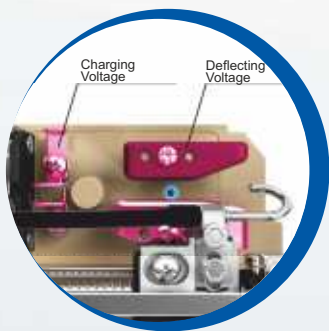
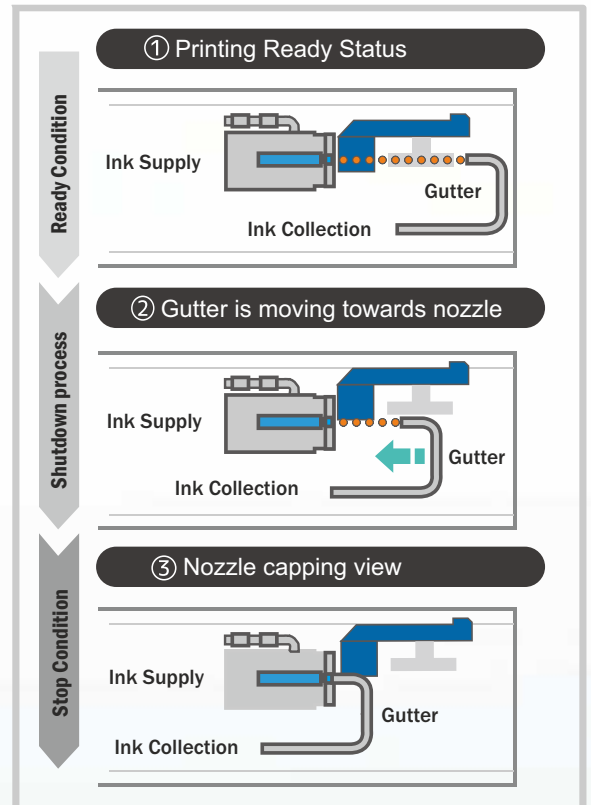
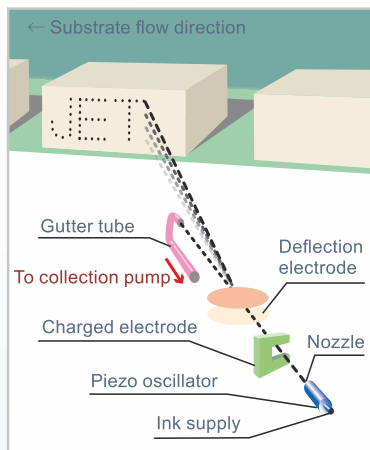
## Accurate coding even at fluctuating temperatures without adjusting ink viscosity

The CCS 3100 is designed for high speed coding and features a fluorine-coded nozzle for stable coding. Capable of supporting multiple languages. Ethernet and external USB support make this a great coding and marking solution for various primary and secondary packaging applications.



# New Generation P-Type Print Head for High Speed Printing

available in 40µm / 50µm / 60µm nozzle



## Working principle of Continuous Charging System

- The ink is continuously passed through nozzle at pressure and crystal oscillator creates ink droplets at fixed interval.
- The precise electrode ensure that every ink droplet is charged negatively.
- These negatively charged ink droplets are deflected by high voltage electrode to exit from print head.
- Charged ink droplet falls on moving substrate to form the character of print.
- The uncharged ink droplet returns to the ink tank through gutter tube.



## Automatic Nozzle Capping™ Technology

KGK Jet Patented Nozzle Capping Technology automatically closes the nozzle with gutter, if the printer is not in use. This safeguards ink from exposure to external environments and contamination, leading to significant savings for customers.

# Simple, Efficient, Stable, Energy Saving and Environment Friendly

## Scheduler: Auto Start & Stop

The Scheduler feature of KGK Jet machine enables you to start using the machine instantly even after a prolonged shutdown.

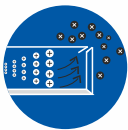


This feature ensures that ink is circulated at scheduled time and any potential blockage is avoided. Enabling customers to use the machine without having to wait for service engineer visit.



## Stable coding even in humid and dusty environment

New print-head design (P-type) for high-speed & legible coding. Also equipped with Fluorine coated nozzle, which protect print-head from contamination.



Positive air pressure inside the print-head, keeps dust and humidity out, resulting in no contamination of head and ink. Operators need not clean print-head before every start & stop.



## Superior printing function

A single nozzle has a maximum longitudinal marginal space of 36 dots which is flexible to meet special information compilation requirements. Customers can freely edit 1-6 lines of text, serial number, linear bar code QR/2D barcode as well as graphics, logo & QR code.



## Extended language support & Weighing machine connectivity

Language support for both software & hardware including English, Arabic, Chinese, Korean, Italian, German, Spanish, Iranian & Turkish.



Simple & convenient to integrate with on-line or off-line check-weigher machine of any brand through RS-232, TCP/IP(LAN) with the support of weighing machine suppliers.

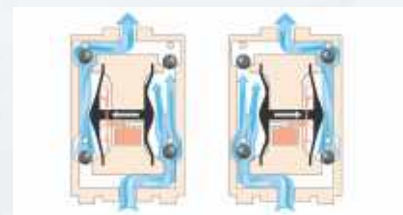


## Unique diaphragm pump advantage

KGK Jet's ink delivery system is powered by a diaphragm pump. Diaphragm pumps are rated at 97% efficiency and are considered to be more trustworthy than geared pumps.



These pumps don't generate heat through friction and have a stable ink composition for KGK Jet machines. Furthermore, minimal evaporation of ink and solvent leads to more savings for customers.



## In-house ink development & production

KGK Jet has developed its own ink in response to the various needs of the market. In addition to regular inks, we manufacture Food Grade ink, UV ink/Stealth ink also.



## Tailor-Made intelligent data communication

Easy integration with customer ERP system or database. Linked through customised special integration software which provide various access right, report generation as well as mailing report to concern team for continuous & batch production.



This in turn allows faster product setup and changeover times, and eliminates recalls and reworking caused by operator error.





## Specifications

Item	CCS 3100-D	CCS 3100-P
Printing system	Continuous Ink Jet (Continuous Charging System)	
Applicable ink	Dye ink	Pigment ink
Dustproof waterproof	IP65	IP65
RoHS compliant	Yes	
CE certified	Yes	
Screen size	10.4" color LCD / touch panel	
Print-head cable length	Standard 3.5m length (also available in 6m length)	
Nozzle Choice	40µm / 50µm / 60µm	50µm / 60µm
Print height	0.8-5mm (40-µm nozzle), 1-10mm (50-µm nozzle), 2-10mm (60-µm nozzle)	
Max printing speed [characters/second] (5x5 dot with the space of 1 dot)	1780-3200 (depends on nozzle size)	
Print lines and dot configurations	[1 ~ 6 Lines] 5×5, 5×N, [1 ~ 4 Lines] 7×5, 7×8, 7×N, [1 ~ 3 Lines] 9×7, 9×9, 10×8, 12×10, [1 ~ 2 Lines] 16×12, 16×16, [1 Line] 24×18, 24×24, 32×24, 32×32	
Number of message to store	Max. 999	
Number of character for a message to store	Max. 4096	
Printable character	Alpha-numeric (upper and lower cases), symbols , Japanese Hiragana, Katakana, Kanji, JIS Class I and 11, Simplified Chinese. Complicate Chinese (GB2312) and user made characters	
Expiry date/time	Western calendar, other calendar, year/month/d ate, day of the week , hours (12 or 24 hour system), consecutive dates all year round. consecutive ordinal number of weeks all year round, early/ mid/ l ate month (can change the duration), am/ pm, characters can be substituted by other characters (Year, month, date, hour, minute, second or day of the week can be substituted by other characters between 4 and 15 digits) and shift code	
Numbering	Max. 10 digits, given initial value can be set, counting up/down, carry over to the upper digit (can set as one count by the number of substrates between 1 and 9,999. Zero-suppression: zero in the upper digit can be substituted by space or all characters following zero will be moved forward by eliminating the space for zero). Characters for numbering can be substituted by other characters than numbers, Positional numeral system between binary and hexadecimal .	
Measured length of the substrate	Up to 10 digits, can be divided (insert any of the characters between the numbers).	
Bar code	ITF, Code39, Code128, NW-7, JAN	
2D bar code	QR Code, data matrix	
Kana-to-kanji conversion	Yes	
Connectivity	I/O,Signal light, RS-232C, LAN, Encoder, UPS, USB memory	
Data input	Touch panel, RS-232C communication, Ethernet	
Communication function	RS-232C 1CH maximum 115,200bps, Ethernet	
Multi-control	A maximum of 16 machines (slave) control is possible with one main (master). [Controllable function start / stop, power OFF, system clock setting, message selection, printing content editing, numbering current value setting]	
Dry air source for air purging in head	Inlet tube dia: ø6mm or 8mm Air source pressure: 0.8Mpa or less (Regulator unit included) Air flow rate: less than 10L / Min	
Area required for Installation (width x depth x height)	Cabinet: 400Wx307Dx548H (excluding projection) Head: ø49.2mmx197mm	
Environmental conditions	0-40°C (it changes with ink types), 10 to 85% (with no condensation)	
Power supply	AC100-240V, 50/60Hz, 80W Single Phase	
Net weight	25kg	
Grounding	Type D	

KGK Jet reserve the right to amend design or specifications without notice.



Subsidiary of Kishu Giken Kogyo, Japan

### KGK Jet India Private Limited

#### Head Office / Works

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Sales



Tech Support