Industrial Inkjet Printers for Small Character Printing

KGK JET India

Subsidiary of KGK JET Japan
Since 1968

KGK JET CCS-R

Small character Industrial Ink Jet Printer

compact printhead | 1mm or less | Key Pad | 1 Printhead Only | INK pigment ink | INK dye ink

http://www.kgkjetindia.com

Full character keypad for simple & easy operation.

- Proudly Made in India
- Powered by SMS
- Build for rugged use
- Trusted for 15 years

KGK JET CCS-R

Affordable, Efficient, Stable,
and Environmental Friendly

Designed in Japan, proudly make in India

Stable & reliable operation even in harsh environmental conditions like high humidity or low temperature. Ideal for industries like pharmaceutical, food, chemical & dairy. KGK Jet has specialised ink for legible coding on substrates like paper, metal, plastic to print MRP, manufacturing date, batch number.

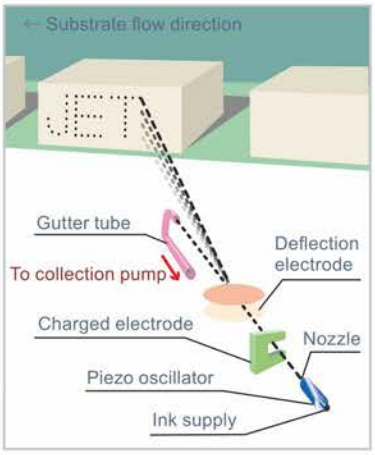
In-house ink development & production

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 and Stealth ink also.

Sturdy N-Type Nozzle

Significantly reduce operating cost

available in 40µm / 50µm / 60µm nozzle



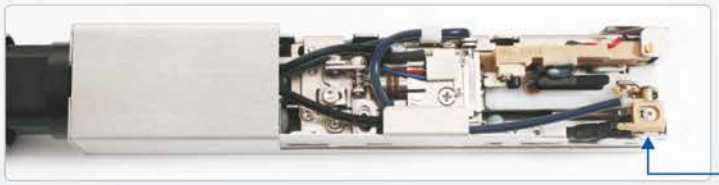
Working principle of Continuous Charging System

- The ink is continuously passed through nozzle at pressure and crystal oscillator creates ink droplets at fixed interval.
- The electric 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 print.
- The uncharged ink droplet returns to the ink tank through gutter tube.

Automatic Nozzle Capping™ Technology

KGK Jet Patented Nozzle Capping Technology automatically close the nozzle with gutter, if the printer is not in use. This prevents ink getting exposed to external environment and contamination resulting significant savings for customers.

Printing



Shutdown in progress

Nozzle Sealed

Simple, Efficient, Stable, Energy Saving and Environment Friendly

Scheduler: Auto Start & Stop

Designed to start the machine immediately even if machine is not operated for very long time. The customer just needs to keep the power supply ON. As per set schedule time, machine will start automatically and calibrate parameters like fluid viscosity & ink delivery systems. No service engineer visit is required resulting in longer up time for the machine.

Stable coding even in humid and dusty environment

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 start.

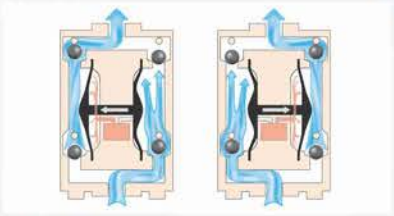
Superior printing function

A single nozzle has a maximum longitudinal marginal space of 26 dots which is flexible to meet special information compilation requirements. Customers can freely edit 1-4 lines of text, serial number, linear bar code as well as graphics & logo.

Unique diaphragm pump advantage

KGK Jet use diaphragm pump to generate pressure of delivery system. Diaphragm pump are 97% efficient and considered more reliable over geared pump.

These pumps generate no heat due to friction and provide stable ink composition for KGK Jet machines, also minimal evaporation of ink & solvent results in more savings.



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.

Service Management System (SMS)

In-built value-added feature which triggers for a service request

Service Management System SMS is inbuilt diagnostic tool, a value-added feature of KGK Jet CIJ machine. KGK is committed to the reliability of machine, running cost, timely Preventive Maintenance & uptime of machine in which SMS play an important role. The objective of Service Management System (SMS) is to provide uninterrupted & best quality output.

Key Benefits

- Preventive Maintenance for maximum uptime
- Pro-active assistance
- Remote assistance for operators'
- Eliminates operators' errors

How Service Management System Works

STEP-1

KGK maintain elaborate customer machine data in SMS.

We know when your machine need service.

Step-2

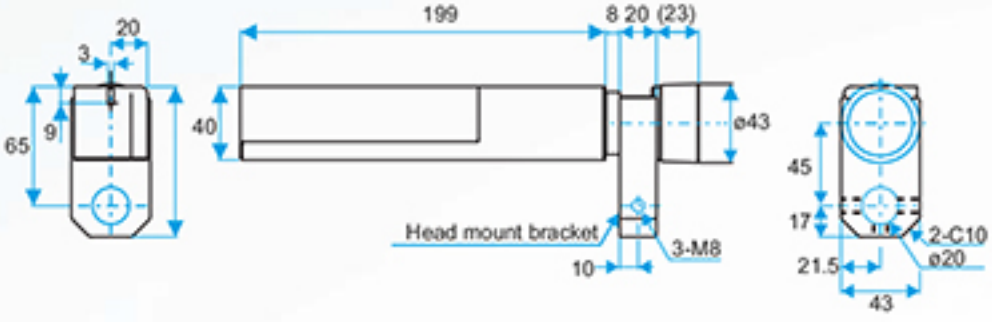
Location service engineer will receive alert 10 days before the machine service due.

Step-3

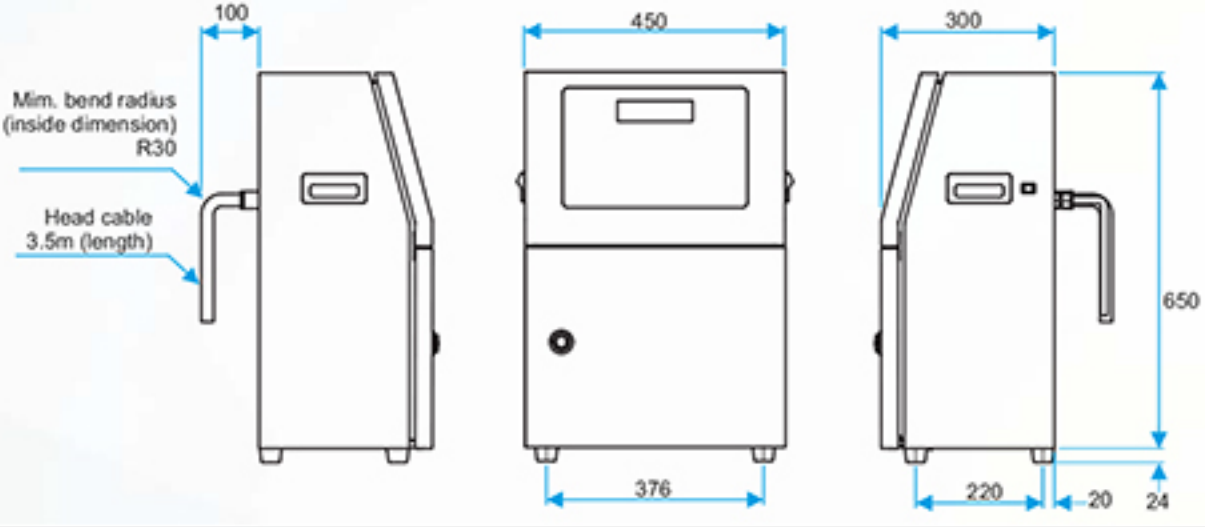
Service engineer perform preventive maintenance at customer location and set the machine on ideal setting.

Dimensional Drawing (mm)

Print Head



Controller



Item	Specifications
Printing Mode	Continuous Ink Jet (Continuous Charging System)
Character Height	1 to 10 mm, up to 26 dots
Print Speed	Max. 2666 characters / sec. (5 x 5 dot font and 1 character space. 40μm Nozzle), Corresponding to 400m/min at 2.5mm char. width
Ink Type	General all purpose ink Low migration Black ink for cables Oil resistant and super adhesive Black Ink Fast drying super adhesive Black Ink Water soluble Black Ink Invisible Fluorescent ink Mild pigment based Yellow Ink Mild pigment based Red Ink Pigment based alcohol proof White Ink Mild pigment based Blue Ink Food grade Ink
Character Type	Alphabet (upper / lower cases), figures, symbols, Katakana and Hiragana Chinese characters (JIS 1st and 2nd standard), user characters and simplified Chinese characters (GB2312)
Number of print line and dot constitution	1 to 4 lines : 5 x 5 dots 1 to 3 lines : 7 x 8 and 7 x 5 dots 1 to 2 lines : 12 x 10, 10 x 8, 9 x 9 and 9 x 7 dots 1 lines : 24 x 24, 24 x18, 16 x 16 and 16 x 12 dots
Font	Gothic (optional : Mincho)
Number of Registered Messages	50 messages max
Date & time (expiration date) Print Functions	AD year, Japanese era name, year / date, day of week, time (12/24 schedule) annual serial date, annual serial week number, early / middle / late part of month (variable term Setting), AM/PM and the replace character function (replace year, month, day, time, minute and second with different characters in single digit)
Numbering Function	Max 8 digits, optional default value setting, up / down, carry (1 count can be set ranging from 1 to 9999 time), Zero suppression function (replaces zeros in higher digits with spaces), numbering replace - character function. (replaces with character figures)
Bar Code	ITF, NW7, EAN, Code39, Code 128
Graphics	Up to 26 pixel in BMP format
Communications Function	RS-232C 1 ch, 76,800 bps max.
Head Cable	Standard 3.5m length (also available in 6m length)
Nozzle Bore Size	40μm, 50μm, 60 μm
Data Input	Feather touch full keyboard, RS-232C communications
User Interface	Japanese, Chinese, English ※ Please note that there may be some languages not applicable depending in their fonts installed.
Outer Shape Dimensions	Main body : 674 mm in height x 450 mm in width x 300 mm in depth Print head : 40 mm in height x 40 mm in width x 199 mm in depth
Environmental Conditions	0 to 40°C, 10 to 80% RH (with no condensation)
Power Supply	AC230V, 50Hz, 70W
Grounding	Type D ground

Optional Accessories

Photo sensor	Reflecting type / transmission type, cable length : 1 meter min. to 5 m max./Contrast sensor/Fiber optical sensor/Fork Sensor
Encoder set	5000 or 10000 ppr, cable length : 1 m min. to 5 m max.
Stand	Printer head stand, table top controller stand
Communication cable	RS232 cross cable, cable Length : 1 m min. to 15 m max.
Push button switch	Connectable to the photo sensor connector and usable for manual character verification
Alarm status	3 light alarm beacon

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

KGK JET India
Subsidiary of KGK JET Japan Since 1958

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