KGK Co.,Ltd.

Reduces operator workload
No wasting time

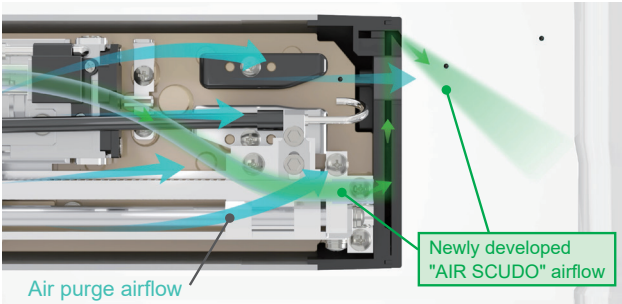**NEW** Newly developed **"Air Scudo® (patented)"** airflow control function

Continuous Inkjet Printer

KGK JET CCS7000

Buildup-free print head

Kishu Giken Kogyo Co., Ltd. has developed "AIR SCUDO®". The air shield effect greatly reduces ink build-up inside the head. KGK tries to aim print-head cleaning number to zero.

［Airflow inside the CCS7000 print head］

Newly developed "AIR SCUDO" airflow

Air purge airflow

The newly developed "AIR SCUDO" function has been added to the existing KGK "Air Purge" function, which prevents ink mist from entering the print head, thereby reducing ink contamination that accumulates on the deflecting electrode. This function suppresses the generation of ink mist that causes the problem and significantly reduces ink bounce back into the print head.

This has resulted in a significant reduction in head cleaning by operators.

［Comparison of ink buildup on deflection electrode］

No AIR SCUDO®   Air purge airflow + AIR SCUDO®

After **1 million** print   After **10 million** print

World's fastest printing-start

The nozzle capping mechanism enables to start printing in only 24 seconds from standstill(the fastest in the world). Moving from the printable state to the standstill, it is possible in approximately 16 seconds

［Nozzle capping mechanism］

Can be used under a variety of environments

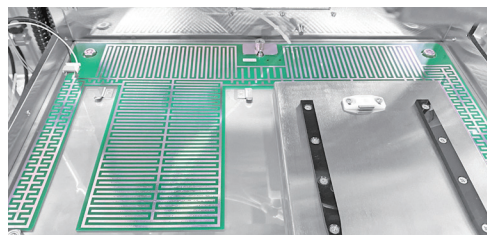From food factories to dusty sites

IP66

The standard dustproof and waterproof rating of IP66 (limited to the main unit) allows installation in factories that handle water or in dusty locations. CE and RoHS compliant.

Tool-less replacement of consumables

The parts of the ink circulation path that require maintenance are integrated in a box for improved workability. Ink filters can be easily replaced without tools.
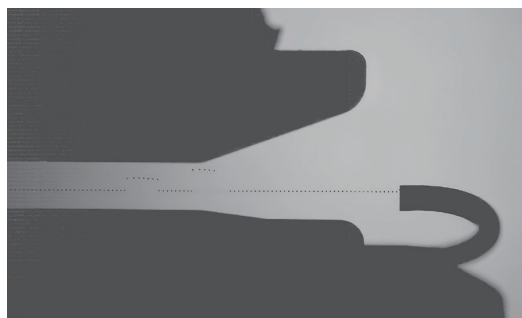
In case of ink leakage

An ink leak sensor is placed on the bottom of the inkjet printer body. This sensor immediately detects and notifies you in the event of an ink leak. This prevents ink from contaminating the customer's floor.

Higher Printing Quality

The optimum charge control for ink droplets is automatically selected according to the customer's printing conditions. We have achieved improved print quality by incorporating all the experience we have cultivated over the years.

Ink drop flight evaluation with a high-speed camera

Specifications

Printing method	Continuous (charge control method)
Supported inks	Dye ink, pigment ink
Dustproof and waterproof	IP66 (excluding head)
RoHS/CE	Supported(No UL)
Screen size	10.1" color LCD/touch panel
Supported nozzles	40 µm / 50 µm / 60µm
Character height	0.8 to 5mm (40µm nozzle), 1 to 10mm (50µm nozzle), 2 to 10mm (60µm nozzle)
Max. printing speed [characters/sec] (5x5 dot font, 1 character spacing)	2233-3666 characters/sec (varies depending on nozzle type and ink type)
Character type	Alphabet (upper/lower case), numbers, symbols, hiragana, katakana, kanji (JIS 1 and 2), user characters
Number of print rows and dot configuration (vertical x horizontal)	[1-6 columns] 5 x 5, 5 x N [1-4 columns] 7 x 5, 7 x 8, 7 x N [1-3 columns] 9 x 7, 9 x 9, 10 x 8, 12 x 10 [1-2 columns] 16 x 12, 16 x 16 [1 column] 24 x 18, 24 x 24, 32 x 24, 32 x 32
Number of registered message characters	Max. 992 characters (31 characters x 32 modules)
Number of registered messages	Max. 1000 messages
Date Time (Expiration date) Print function	Year, year, month, day, day of the week, time (12/24-hour system), date throughout the year, week number throughout the year, month upper/middle/late (variable period setting), AM/PM, shift code, character assignment function (year, month, day, hour, minute, second, day of week) to another character with maximum 4 to 15 digits
Numbering function	Up to 10 digits, optional initial value setting, up/down, carry (1 count can be set as a work number from 1 to 9999), zero suppress function (replace or prepend zeros in upper digits with spaces), numbering character assignment function (assignment to characters other than digits), Decimal setting (2 to 36 decimal) divisible (insert any character between numbers)
Distance printing function	Up to 10 digits, divisible (insert any character between digits)
Barcode printing function	ITF, Code39, NW7, JAN, Code128, CODE93, UPC-E/GS1
2D code printing function	QR Code / Data Matrix
External Connection	I/O, signal light, RS-232C, LAN, encoder, UPS, USB
Data input	Touch panel, RS-232C communication, Ethernet
Multi-control	Up to 16 slave units can be controlled for 1 master unit【Controllable functions】Run/Stop, Power OFF, System clock setting, Message selection, Edit print contents, Numbering current value setting
Dry air source for Airscudo	Not required
Installation area (W x D x H)	Main unit: 400W x 347D x 577H (excluding protruding parts) Head: φ50mm x 222mm
Specification environment (temperature, humidity)	0 to 40°C (depending on ink type), 10 to 85% (with no condensation)
Power source	AC90 - 264V (47 - 63Hz), 95W
Weight	27Kg
Grounding	Class D grounding

Product specifications are subject to change without notice.

Kishu Giken Kogyo Co., Ltd.

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