.total
by inc.jet

INTEGRATION SOLUTIONS

incjet

core

incjet

INDUSTRIAL CODING

.TOTAL Flexibility   .TOTAL Control

The very foundation of inc.jet's printing solutions is thermal inkjet technology (TIJ). inc.jet offers ready-to-run, high-resolution, variable data digital printing systems designed with high-performance, low maintenance and cost effectiveness in mind. Whether printing variable or fixed data in Mailing & Addressing, Web, or Package Printing industrial applications, inc.jet has the solution.

There are often several solutions for today's coding and marking applications – inc.jet has the application expertise and product mix to help you find the right one to fit your needs .

Simple Integration

IPS is simple to integrate into existing packaging lines and equipment. With industry standard mounting configurations and a design that takes up less room, IPS is a smarter alternative to bulky print systems.
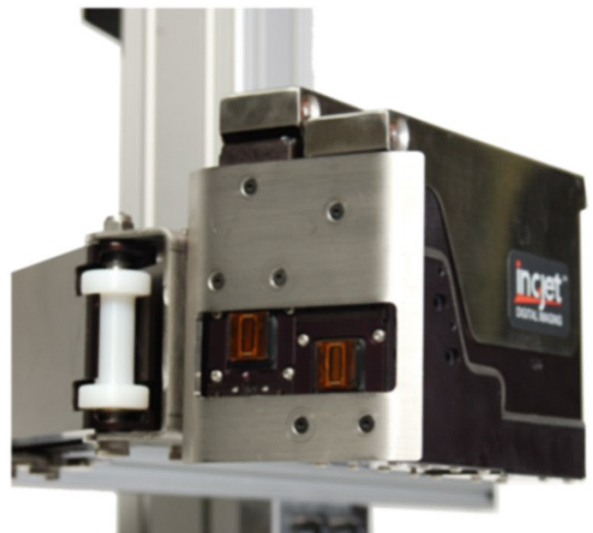
- Complete range of print heads for total flexibility
- Hardware and software solution options for effective integration
- Full range of ancillary electronics and mounting hardware

Total Flexibility

Whether, small or large characters, printing fixed images, lot and date codes, even variable data, IPS can do it all. With rugged, flexible hardware, software that puts you in control of how you integrate IPS into your projects, and the widest range of inks for printing on almost anything, from paper to foils, in black or in color, you have the ultimate industrial print system.

- Variable and fixed data capability
- Variety of ways to access print controls to suit your application
- Modular components to build to your specific needs

15" User Interface (5019311G)

The User Interface (UI) is a Windows XP Embedded, 15" touch screen computer which provides print job design, printer configuration, control and monitoring for up to sixteen Print Controllers or four lines. The 15" UI has both IPS Director and IPS Producer pre-installed. It is supplied with a keyboard and mouse and a keyboard mounting bracket suitable for installation on the Fixed Stand. A USB port allows for connection to hand held barcode scanners or for thumb drives to upload print jobs.

6" User Interface (5018188G)

The User Interface is a Windows CE industrial touch screen computer, providing printer configuration, control, and command from a single point for up to sixteen Print Controllers or four lines. IPS Director™ is preinstalled. Operationally, a wide variety of operating conditions can be monitored in real-time, including job types, counts and even ink consumption. A USB port allows for connection to hand held barcode scanners or for thumb drives to upload print jobs.
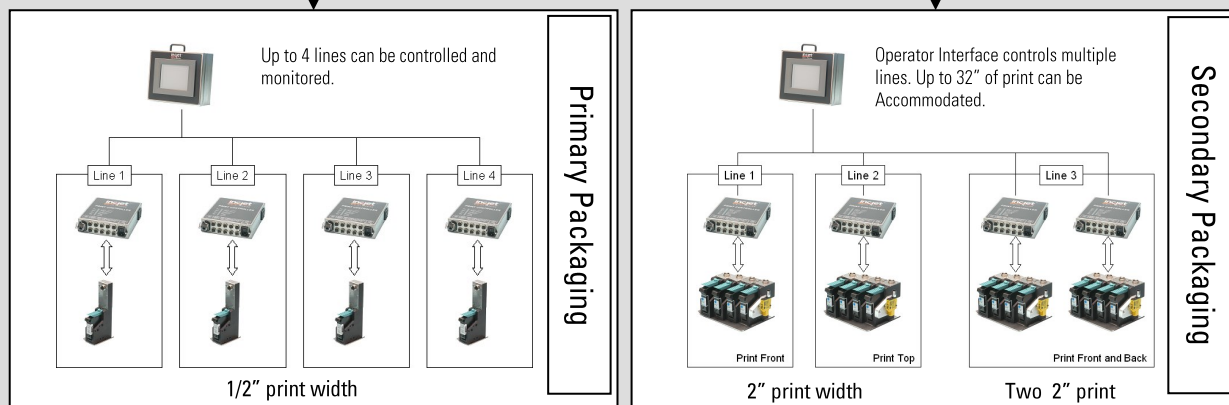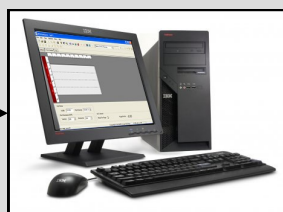
Print Controller (5018689G)

The Print Controller is a rugged, stainless steel, industrial box containing an inc.jet jet.engine™ V5 print control card and power supply. It has a standard AC Power Connector, Ethernet outlet and 10 additional application-specific interface connectors supporting Pen Stalls, Encoder, Sensor, Daisy Chain, Stack Light and General Purpose Input/Output functions.

Create, Communicate, Control

The IPS system can separate template creation and control from day to day printing processes, allowing supervisors to design and manage effectively, while empowering operators with a clean and simple way to run and monitor package coding.

Connectivity via Ethernet or USB Drive

Template creation, management and distribution

Primary Packaging

Up to 4 lines can be controlled and monitored.

Line 1   Line 2   Line 3   Line 4

1/2" print width

Secondary Packaging

Operator Interface controls multiple lines. Up to 32" of print can be Accommodated.

Line 1   Line 2   Line 3

Print Front   Print Top   Print Front and Back

2" print width   Two 2" print

½" Pen Stall, Top/Back Exit (5018008G)

This Pen Stall has the shortest vertical height available. The connector on this pen stall can be field configured for either top or back exit. Multiple pen stall designs allow for ultimate mounting flexibility. It accepts easily replaceable, HP print cartridges.

½" Pen Stall, Front/Back Exit, With Seal (5018706G)

This pen stall has the smallest overall footprint, and its connector can be configured for either front or back exit. The pen stall includes a machined base plate with an ink channel and replaceable protective gasket to help prevent ink seepage back into the pen driver electronics.

SKI TYPE A

SKI TYPE D

½" All Metal Pen Stall, Back Exit (5019245G)

The All Metal Pens stall is an extremely rugged ½" pen option, encased in a machined, aluminum housing. It has the same electrical interface and physical connector as other pen stalls. Cable connectivity is only from the back. With a width of only 1 ¼", it is thinner that the other pen stalls.

½" All Metal Pen Stall, Back Exit, Expansion Stall (5019246G)

When an increased print width is required, All-Metal Pens Expansion Stalls are used. These affix directly to the sides of the ½" stall with supplied hardware. As the expansion stalls have only one wall, the final footprint is kept to a minimum. Cable connectivity is made only from the back.

½" Assembled Print Head With Cover (5018708G)

This single pen ½" print head is designed with a protective gasket and integrated splash cover to help prevent dust and other contaminants from entering the pen stall. The print head comes with an attached bidirectional ski and pen cable to attach it to a Print Controller.

SKI TYPE B

½" Assembled Low Profile Print Head With Cover (5018825G)

This single pen ½" low profile print head is designed for print applications where the print head must to be positioned to print close to the bottom of a package. The print head nozzles are only ½" from the bottom of the print head. This print head is designed with a protective gasket and an integrated splash cover to help prevent dust and other contaminants from entering the pen stall. The print head comes with an attached bidirectional ski and pen cable to attach it to a Print

SKI TYPE C

SKIS

Print Head Ski Kits

Individual Pen Stalls can be mounted together to create continuous print heads. Ski Kits are available to mount 1, 2, 3, or 4 pen stalls together to create 1/2" 1", 1 1/2", and 2" print heads. All standard skis are reversible.

SKI TYPE A - for use with Standard Pen Stalls, 5018008G and 5018706G
1 Pen Standard Print Head Ski Kit Bidirectional (5018485G)
2 Pen Standard Print Head Ski Kit Bidirectional (5018486G)
3 Pen Standard Print Head Ski Kit Bidirectional (5018487G)
4 Pen Standard Print Head Ski Kit Bidirectional (5018488G)

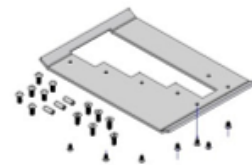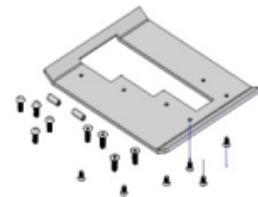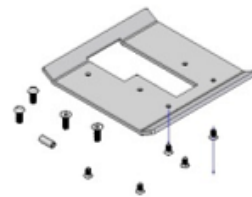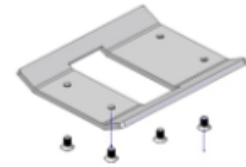### SKI TYPE B - for use with Standard Pen Stall with Cover, 5018708G
1 Pen Covered Standard Print Head Ski Kit *(included with single pen kit)*
2 Pen Covered Standard Print Head Ski Kit Bidirectional (5018974G)
3 Pen Covered Standard Print Head Ski Kit Bidirectional (5018975G)

SKI TYPE C - for use with Low Profile Pen Stall with Cover, 5018825G
1 Pen Covered Low Profile Print Head Ski Kit (*included with single pen kit)*
2 Pen Covered Low Profile Print Head Ski Kit Bidirectional (5019393G)
3 Pen Covered Low Profile Print Head Ski Kit Bidirectional (5019394G)

SKI TYPE D- for use with All Metal Pen Stall, 5019245G and 5019246G
1 Pen Standard Print Head Ski Kit (5019304G)
2 Pen Standard Print Head Ski Kit Bidirectional (5019305G)
3 Pen Standard Print Head Ski Kit Bidirectional (5019306G)
4 Pen Standard Print Head Ski Kit, Left to Right (5019307G)
4 Pen Standard Print Head Ski Kit, Right to Left (5019308G)

Pen Stall Interface Cable – Straight, 4m (4970411G-0400)
Used to connect pens to Print Controllers. The standard cable length is 4 meters. Cables are available in custom lengths by special order only.

Pen Stall Interface Cable – Right Angle, 4m (4970412G-0400-A)
The standard cable length is 4 meters. Cables are available in custom lengths by special order only. The configuration of the right angle connector is adjustable in the field to any 45 degree angle (8 unique locations), so the exit angle of the cable can be adjusted to match the installation as required.

Daisy Chain Interface Cable, 1m (4970414G-0100)
A daisy chain cable is required when using more than one print controller on a line. The daisy chain cable transmits the encoder and sensor signals to the additional print controller. One daisy chain cable is needed for each additional print controller. The standard Cable length is 1 meter. Cables are available in custom lengths by special order only.

Input/Output Cable Assembly (4970481G-0500)
This cable assembly provides connection to the 14 signals on the I/O connector. The standard cable length is 5 meters. Cables are available in custom lengths by special order only.

Dual Bulk Supply to Print Controller Interface Cable (4970693G)
This cable is used to connect two Bulk Ink Supplies with Empty Detect (5018649G) to one print controller for applications that have two 1" heads on both sides of the conveyor. The cable is 4 meters long from the 14 pin connector that connects to a Print Controller to each of the 6 pin connectors that connect to the bulk ink supplies.

Photocell Interface Cable (4970416G-0400)
The Photocell Interface cable connects a customer-provided sensor with a standard 4-pin M-12 connector to the print controller. The standard cable length is 4 meters, but the cable can be shortened in the field for specific requirements. Cables are available in custom lengths by special order only.

Ethernet Cable – 3 meter (4253302G)
An Ethernet interface cable is provided with each print controller. Additional cables are available if required.

Crossover Ethernet Cable – 3 meter (4253309G)
An Ethernet Crossover cable is provided with each user interface. Additional cables are available, if required.

Sensor Kit (5018461G)

The Sensor Photocell Kit includes everything needed to attach a product detection sensor directly to any print head. One sensor is needed per line. The mounting plate is used to extend the sensor over the ski assembly. The Sensor Kit comes with a connecting cable.

Encoder Kit (5018466G)

The Encoder Kit includes all components needed to install and mount a 300 PPI encoder on a printing conveyor. inc.jet's standard encoder has a resolution of 1800 pulses per revolution and comes with a 6″ circumference knurled wheel to generate 300 ppi print pulses. The standard cable length is 4 meters. The Encoder Kit is supplied with mounting brackets.

Ethernet Switch Kit (5018683)

inc.jet offers a 5-Port Ethernet Switch kit. This is required for all systems with multiple print controllers or a connection to a plant network.
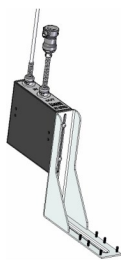
Stack Light(5019312G)

The optional Stack Light contains a stack light system that provides a 3-color LED-illuminated status indication in all directions. Mounting hardware is shipped attached to the assembly.

Hand Held Barcode Scanner (4583383G)

This is a laser-based scanner, ideally suited to reading a variety of barcodes. With its USB connectivity it can be connected directly into either the 6″ or 15″ UI with no additional software installation. It is highly tough and durable. The Barcode Scanner is used by operators to load jobs.

ANCILLIARY ELECTRONICS

½" Bulk Ink Regulator Assembly (5018647G)

The ½" Bulk Ink Regulator Assembly contains all components required to connect a single pen stall to a bulk ink container. Includes one tube assembly to connect the bulk ink container to the ink regulator, one ink regulator assembly, one tube assembly to connect the ink regulator to the print cartridge, a priming kit to fill the system with ink, and the mounting hardware required to mount the ink regulator assembly directly to the print head assembly. Suitable for print heads, 5018008G, 5018706G or 5018708G

2" Bulk Ink Regulator Assembly (5018648G)

The 2" Bulk Ink Regulator Assembly contains all components required to connect four pen stalls to a bulk ink container. Suitable for print heads, 5018008G, 5018706G or 5018708G
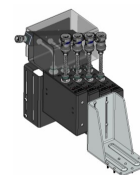
½" Regulator Assembly for Low Profile Print Head (5018931G)

The ½" Regulator Assembly for Low Profile Print Head is required when using a bulk ink supply with a single low profile ½" print head. This mount can only be used with a ½" low profile print head, and mounts on the top side of the pen assembly. Suitable for print head, 5018825G.

2" Regulator Assembly for Low Profile Print Heads (5018930G)

The 2" Regulator Assembly for Low Profile Print Heads is required when using a bulk ink supply with a low profile 2" print head. This mount can only be used with a 2" low profile print head, and mounts on the top side of the pen assembly, or to the fixed stand Suitable for print head, 5018825G.

800mL fuel.tank Bulk Ink Holder with Empty Detect Kit (5018649GT)

The 800mL fuel.tank Bulk Ink Holder with Empty Detect Kit is a gravity-feed bulk ink system with attached mounting hardware designed for jet.fuel inks. The unit detects when the bulk ink is empty and has an LED (Green/Red) that displays the ink status. The Empty Detect switch connects directly to the IPS Print Controller I/O Connector using the included Cable Assembly.

Bulk Ink Bottle Holder with Empty Detect (5019132GT)

The Bulk Ink Bottle System with Empty Detect is a gravity-feed bulk ink system with attached mounting hardware designed for use with jet.fuel 475mL ink bottles. The unit detects when the bulk ink is empty and connects directly to the IPS Print Controller I/O Connector using the included Cable Assembly.

Fixed Floor Stand (5018774G)

The vertical stand is a fixed unit with a movable arm for rigid mounting of the print head. This stand is designed to be permanently attached to a concrete floor. The stand has mounting channels on each side, allowing for print controller, bulk ink, user interface, print heads and other attachments.
(does not include user interface, integrated head, bulk system, stack light or base plate—for demonstration purposes only)

Additional Arm for Fixed Floor Stand (5018704G)

When an additional print head is required to increase print height or to place the print head in a different position, a further arm can be mounted to the Fixed Floor Stand.
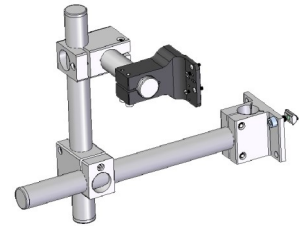
Spring-loaded Slide Mount Kit (5019300G)

The spring-loaded slide mount is designed to provide accurate and reliable retraction and return of print heads for up to ½" of motion from its original set position. Optimal print quality is accomplished by keeping the pens in contact with carton surfaces without the need for repeated adjustment of the mounting equipment. *(does not include print head and mounting bracket—for demonstration purposes only)*

Fixed Pen Mounting Kit (5018582G)

The Fixed Pen Mounting kit is used to mount pens securely in a fixed position in any printing application, such as to the side of the conveyor. Many different configurations are possible with this mounting kit.
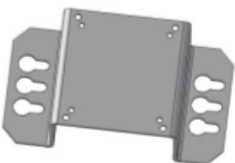
Adjustable Conveyor Mount (5018850G)

The Adjustable Conveyor Mount allows mounting of a print head or swing arm onto the conveyor assembly. Once mounted, the system allows easy up-down and in-out component adjustment. The picture below shows the four main components of the adjustable conveyor mount. The vertical bracket slot allows 8.25" vertical range of motion. The Horizontal bracket allows a 6" range of motion.

4" Swing Arm Bracket Kit (5018521G)

The Swing Arm Bracket Kit provides a highly adjustable solution for systems where the print head assembly must be pressed against a product as it passes by. Specifically designed for corrugated box applications, the bracket can be easily adapted to many applications. It can mount to an adjustable conveyor mount or to a fixed Floor Stand.
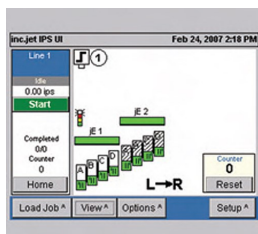
Print Controller Bracket Kit (5018518G)

This kit is used to mount the print controller to either the stand or a bulkhead. The main component in the kit is the mounting bracket (6003973G).

IPS Producer

IPS Producer separates template creation and control from day to day printing processes. Operating on any computer running Windows, it permits the creation of print templates that can be exported into the User Interface via an Ethernet connection or by using a USB thumb drive.

IPS Director

IPS Director software runs on the User Interface and provides printer configuration, control and monitoring. The interface allows the user to monitor a wide variety of operating conditions, including job types and job counts and even ink usage, all in real-time.

Windows Print Driver

The inc.jet Windows Printer Driver (WPD) is designed to take full advantage of the flexibility of inc.jet's printer—the jet.engine. It allows the user to use third party software such as EASYLABEL® and BarTender® to create print-jobs and then print them using the IPS hardware. Printing becomes as simple as using a desktop printer.

Tech Wipes—Pack of 150 (1952217)

High absorbency, heavy duty wipes are ideal for cartridge maintenance. Can be used wet or dry, made from a hydro-entangled blend of Polyester & Cellulose, will not leave any lint residue behind.

Nozzle Priming Kit (5019065G)

This kit is used to remove air from a nozzle ink chamber on the cartridge. It is supplied with a plastic syringe and cartridge clip

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inc.jet, inc.
One Winnenden Road
Norwich, CT 06360
USA

Tel: +1-877-228-9456 (toll free)
         +1-860-823-3090
Fax: +1-860-859-4402

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