INFO

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AUTOPRINT®
400 Series Inkjet Printers

Featuring…

inkjet technology by **hp** invent

In-Line Carton Printing and Barcoding

The new AUTOPRINT® 400 Series printer features high-definition print quality in a robust printer designed for industrial applications. It embodies the knowhow that AT Info and Hewlett Packard have gained in making inkjet printers for more than twenty five years.
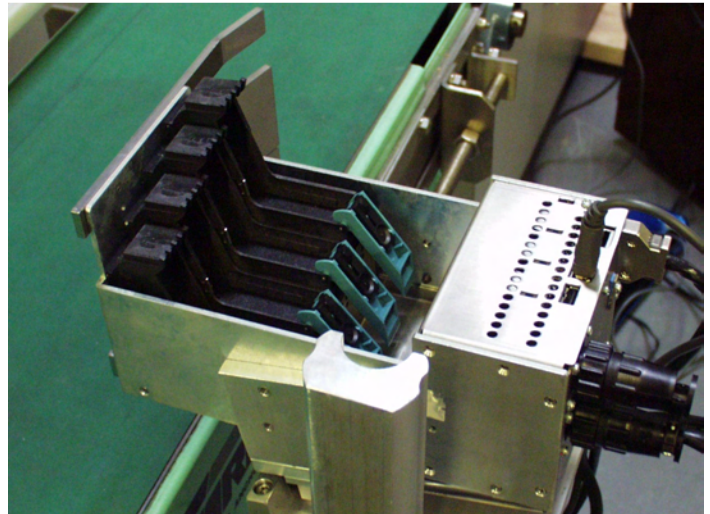
All Purpose High Definition Digital Printing
AUTOPRINT® 400 Series Printers feature four high-definition HP cartridge printheads that are designed to print a continuous 2-inch high swath of alpha-numeric text, barcode symbologies and graphics up to 40 inches long. Series 400 printers are ideal for printing all required package identification information including:

- Product name, description and ingredients
- Barcode symbologies including UPC-A, EAN, Code 3 of 9, Code 128, Data Matrix and I 2 of 5
- Country of origin
- Use-by dates, traceability codes, sequential numbers, time and date stamps with rollover
- Graphics and spot colors

Setting A Higher Standard
The AUTOPRINT® 400 Series Printer delivers superior performance where it counts.

Clear Print Quality
Adjustable from 150
up to 600 dpi
Large Flexible Messages
Modular up to 8 inches high
And 40 inches long
Easy To Use Software
Windows driver and
WYSIWYG composition
Software
High Speed Print
Up to 480 feet per minute
Scaleable
Expandable print height;
Opposite and adjacent side
printing;
Multi-line multi printer chains

Reliable
Heavy duty stainless steel
No Wear parts;
cartridge replenishment
performs preventive
maintenance
Easy to Operate
Digital interfaces for quick
and easy data entry
Easy to start (no priming)
Easy to replenish (snap-in
cartridges and automatic ink
delivery systems)
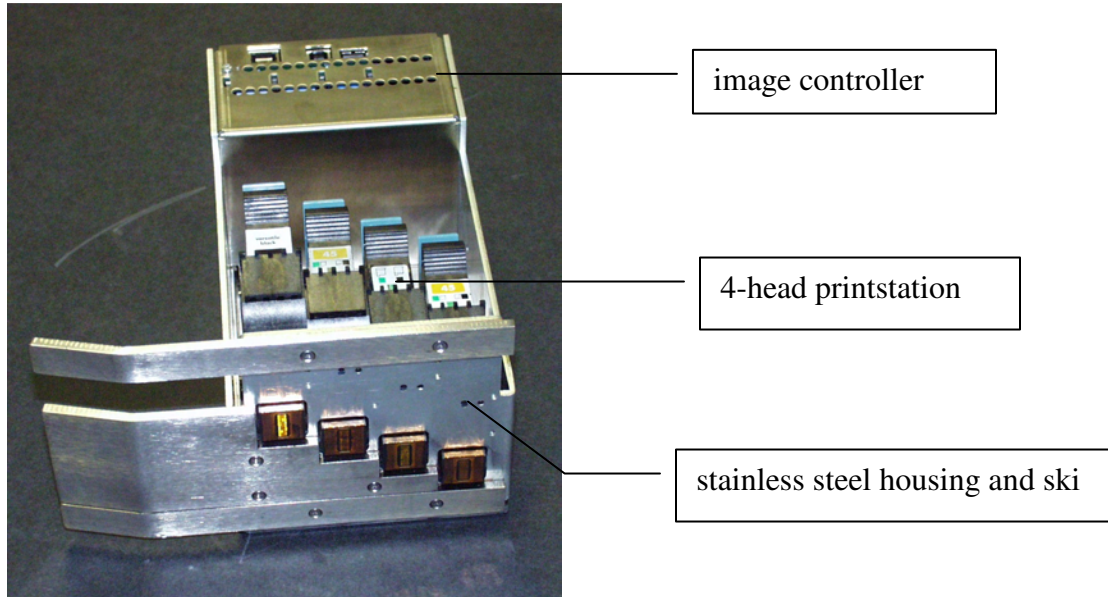**Safe Eco-Friendly**
Non-toxic water based ink

Lower Total Cost of Ownership

The performance features of the Series 400 printer lead to significant economic benefits compared to traditional in-plant printing methods.
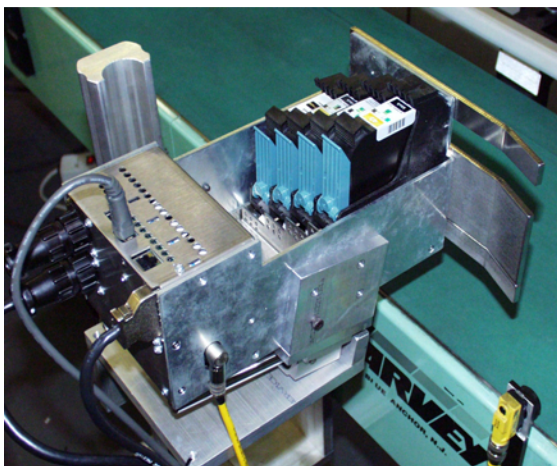
- the cost of TIJ ink for direct printing is 50% less than the cost of label and ribbon stock
- service and maintenance requirements are a small fraction of the cost to keep CIJ and DOD inkjet running.
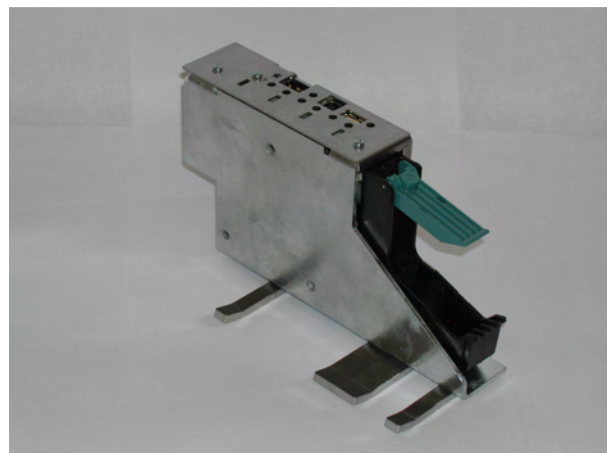
Construction Features

AUTOPRINT® 400 Series printers have a four-head printstation and integrated image controller that are embedded in a stainless steel housing. Each print module has long sturdy "skis" that guide the carton being printed to the printstation while protecting the printheads. The angled skis are reversible to the direction of carton flow.

image controller

4-head printstation

stainless steel housing and ski

The 400 Series has two basic models or configurations. The low profile four-head model is designed for printing near the bottom of shipping cartons. It will print I 2 of 5 barcodes 1.25 inches from the bottom of the carton as required by many supply chains. This feature makes the low profile configuration the preferred model for single module systems and the basic building block for multiple unit systems. A complementary, smaller "short-stack" 4-head model can be used to print higher up or on the top of the carton. For applications that only require a 1/2 – inch high message or have limited space for mounting, a slim single printhead module is available with Series 400 features.
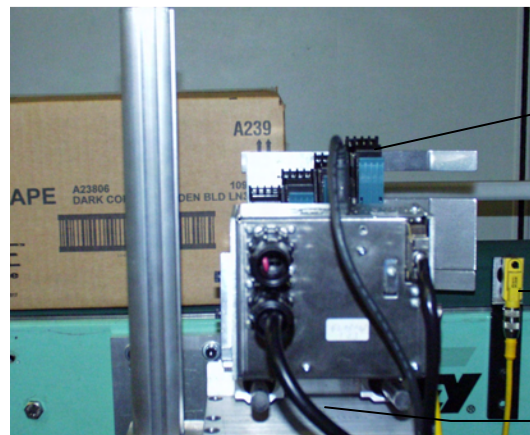

Low Profile 4- Head

Single Head Printer

Building Your System

Series 400 print modules are equipped to operate as independent printers or as print modules in multi-unit systems. Each print module has connections for a power supply, encoder and product or carton sensor.
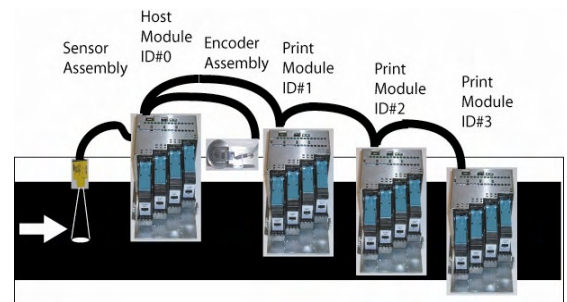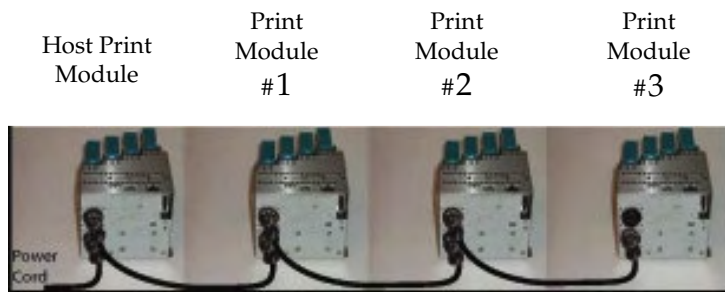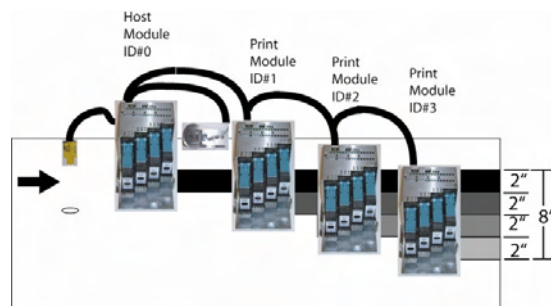

encoder connector

product sensor

power connection

The power supply can power up to four print modules (16 printheads). The accessory ports connect to the upstream carton sensor and to the line encoder that synchronizes the printer with variable speed cartoning lines.

Communications

The host print module is equipped with a USB 1.1 and Ethernet TCP/IP communication port to the system PC. It is easy to connect multiple print modules to build a taller message or to configure systems for opposite side and adjacent side printing. This can be done with standard connection cables that are six and ten feet in length, or with custom cables up to 20 feet long.

An Ethernet connection is a simple and reliable way to connect printers on separate cartoning lines back to a single PC loaded with Messagemaker software for printing and message composition.

System Controls

The system PC control panel is used to configure, align, test, regulate and monitor print modules during setup and operation. It is used to configure the language, format, style and print quality (dpi) of the data being printed. The status menu shows piece counts, print rate, clock setting and the amount of ink remaining in each cartridge. The PC control panel is also used to co-ordinate the function of multiple print modules when they are linked together.

Technical Specifications:

Physical Size

Print Module	4-Head Low Profile	Standard 4-Head	Standard 1-Head
Height	10 inches	4.25 inches	4.25 inches
Width	5.5	4.5	1.5
Depth	4.5	7.5	7.5
Weight	4.5 lbs	3.5 lbs	1.5 lbs

Electrical
Voltage + 24 volts 5.4 amps

Print Size (2 inch Print Module)
Three lines of 36 point text to
Twelve lines of 12 point text

Effective Print Area
4 – Head Printer – 2 inches high and up to 40 inches long
1 – Head Printer – ½ inch high and up to 40 inches long

Fonts
5 Internal Fonts that are scalable
Unlimited True Type Fonts

Font Styles
Regular, Bold, Italic, Bold Italic

Printing Speeds

Print Quality (DPI)	Max. Printing Speed
600 x 150	Up to 96 ips / 480 fpm
600 x 200	Up to 72 ips / 360 fpm
600 x 300	Up to 48 ips / 240 fpm
600 x 600	Up to 24 ips / 120 fpm

Environmental Conditions
Operating (Power On)
Temperature   55°F – 95°F
Humidity   8% - 80%

Print Module Interface
USB Ver. 1.1
10/100 Base – T Ethernet port for TCP/IP

External Input Connections
2 Sensor inputs
Encoder input

External Output Connections
4 Analog output; pulse width modulated

Certification
UL 65950:2000, CAN/CSA-C22.2 No. 60950-00, UL 1950:
1995 R6.98,
EN 60950:1992 +A1+A2+A3+A4+A11

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