

A-JET 101 - 116: SPECIAL CODING SOLUTIONS

Since 1998 our AJET 101 has solved unique coding problems, where alternative systems failed.

The AJET 101 can use any ink, for any surface in bulk containers instead of costly dedicated cartridges. Its programming and operation can be mastered quickly by an average skilled technician - reducing the need for trained installers to be on site -

The AJET 116, 16 valve printer, has been added recently, to print large characters (2") and complex logos (it can print Chinese and other ideogram based languages).

These are some applications:

CASE# 1: PRINTING BAR CODE SCANNED DATA WITH INVISIBLE INK

A manufacturer of proprietary items wanted to trace their products throughout the distribution system, printing customer code, P.O. #, date of shipment on the shipping containers with invisible inks. Data were scanned from bar coded shipping documents. The AJET 101 can receive and print scanned information solved the problem for under 5,000.00 - Competitors solutions were several times higher. The capacity of the AJET 101 to use either alcohol or water base inks, further allowed us to develop an ink formulation that could be absorbed into the board without distorting the fibers and leaving no trace, but clearly legible under UV lights.

CASE # 2: PRINTING ON SPECIFIED LENGTH CONTAINERS PASSING AT RANDOM IN FRONT OF PRINTER

An egg packer, supplier to the military, needed to print only on certain length cases, traveling on a conveyor intermingled with other lengths, on which no print was wanted.

We adapted the AJET 101 to recognize and print on the desired shipping case, for a cost to our Distributor at a fraction of any other manufacturer -Several of our competitors declined to bid, not able to solve the customer's requirements.

Case # 3: PRINTING ON HIGH DENSITY POLYETHYLENE BAGS

A manufacturer of cellulose insulation needed to code HDPE bags, after filling.

The surface of the bags is coated and difficult to print.

We developed a custom formulation of our non porous surfaces alcohol base ink, to print with the standard AJET 101. Standard alcohol base inks had proved impossible to use for the surface treatment of the film caused the ink to spread uncontrollably.

Drying time about 40 seconds was shortened with heat units to assist drying.

Alternative solutions required use of MEK or Acetate base inks that customer did not want in their plant and at several time the cost of the AJET 101 -

Case # 4: PRINTING PERMANENT CODES ON ABSORBENT MATERIAL - CONDENSATION AND SUNLIGHT RESISTANT:

Manufacturer of highly abrasive construction material needed to code products exposed to sunlight and condensation, and could not use any flammable ink - We installed the AJET 101 with our water and sunlight resistant ink, water base - Customer selected the AJET after testing all available printers in the market .

Case # 5: PRINTING ON PLASTIC BAGS AND LABELS IN SALT SATURATED AMBIENT WITH TEMPERATURE FROM 30 F' BELOW TO 110' F.

Customer had used Video Jet, Marsh and Loveshaw printers all resulting into equipment failures due to the salty accumulation on equipment. Our AJET 101 compact size enabled it to be completely sealed against outside pollution - the Special Formula ink we developed, unaffected by the extreme temperatures in the area, from below freezing point to over 110 F' .

Case # 6: PRINTING ON PLASTIC BAGS IN A CALCIUM CHLORIDE FACTORY

Customer needed a unit to withstand exposure to calcium chloride salts capable of printing on plastic surfaces, of various nature, low and high density PET, treated and untreated films. We used a standard AJET 101 with our Special Formula Non Porous surface inks. Since the AJET 101 hardware and body are made of aluminum, we sprayed the entire unit with a special protective coating and sealed all openings.

Case # 7: PRINTING ON PVC TUBING IN TEMPERATURE ABOVE 120 F'

Customer needed to apply code on sections of PVC tubing before bending and shaping. Marks to be applied on hot surface, and to remain legible after bending and shaping. We met their requirements with the standard AJET 101 and a custom formulation of our IJ-NP-HR -

CASE # 8: PRINTING ON CLAY COATED PAPER BAGS

A manufacturer of food ingredients, using Marsh Unicorn printers on kraft bags changed to a multicolor varnished bag to discover that the Unicorn could not print only when they went into production. They had to stop production - We replaced the Unicorn with the the AJET 101 with HR ink, enabling to resume production within two hours from their call.

CASE # 9: PRINTING ON LACQUERED METAL BASE OF TORQUE CONVERTER

The color of the torque converter base to be printed was the same of the carousel and the photo sensor could not be triggered without color contrast. The flexible design of the AJET 101 allowed the photo sensor to be repositioned on the carousel where it could detect the product - Customer was able to effect the change with only telephone assistance from our service.

CASE # 10: PRINTING PRODUCT WEIGHT FROM A RAMSEY TECHNOLOGY CHECK WEIGHER

Customer required to print the weight on the shipping containers. After shopping the entire industry for a system that could do it a reasonable price, resigned to having to invest several thousands dollars. Our Distributor suggested our AJET 101. We wrote the software to communicate with the check weigher customer was using, to send a signal to the AJET 101 and print, within a couple of days from the call.

CASE # 11: PRINTING OF REJECTION CODE FROM METAL DETECTOR ON CATTLE FEED BAGS

Customer, a large soy bean processor in Illinois, with several plants nationwide, needed to print the word METAL on bags flagged by the metal detector. After printing, the conveyor pivots and drops the flagged bag into a secondary line for disposal. The printer had to be mounted on the pivoting conveyor section, not easily accessible, had to withstand severe operating shocks, have a long ink supply, be ready to print intermittently at very long intervals, and have a RS communication port to receive input from the metal detector.

All these are standard features in the AJET 101, at that time for only 1,395.00 - Current price has been increased to 1,495.00 still the lowest price of any full featured printer in the market.

CASE # 12: PRINTING PRODUCT CODES ON LAMINATED STEEL PLATES:

Customer needed a fast dry printer capable of 2" height characters on steel plates - We installed our new AJET 116 - 16 dot printer - with print height of 50mm -using MEK base dark blue ink -

CASE # 13: PRINTING ON BLACK VARNISHED CHARCOAL BAGS:

Customer needed a fast dry to print on black varnished bags: we installed our new 101/S with our Pigmented Baby Powder blue - programmable with spit cycles to maintain printing readiness even in intermittent operation with fast drying inks -

CASE # 14: IDENTIFICATION OF CUT LUMBER IN AUTOMATIC LINE:

A manufacturer of automated wood cutting and assembly lines, needed to code each cut piece with codes issued by the central computer system -They purchased one AJET 101, connected to the computer via the standard RS 232, solving their needs for just 1,495.00 -