

### IPS and Antares Vision First to Comply With Turkish Pharma Law on Serialisation and Product Tracking

*Leading supplier of pharmaceutical vision systems Antares Vision from Brescia, Italy, has selected Array Graphics' IPS package coding solution to print Data Matrix codes onto cartons as part of their ATS tracking system.*

The Antares Tracking System, ATS, is the first tracking system that complies with all Turkish Health Ministry validation tests. Turkey is the first country that has issued national legislation based on European directives for pharmaceutical product tracking. As of 2009, the Turkish government will require serialisation of all pharmaceutical products. "Since our ATS has passed all validation tests, there has been a great demand for the system from major Turkish pharmaceutical companies: the first 15 systems have already been installed and many more are scheduled to go," says Emidio Zorzella, Managing Director of Antares Vision.

#### High-Quality Inkjet Code Printing



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Array Graphics' IPS inkjet printing system is a key component within the Antares Tracking System.

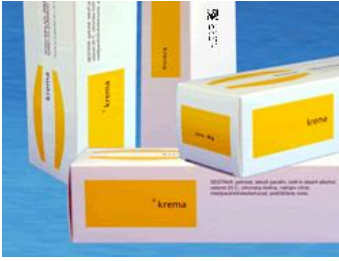
IPS is the compact printing solution for the package coding industry, based on clean, easy-to-use HP inkjet technology. The inkjet prints a four-line message, containing identifier and manufacturer, unique serial number, expiry date and batch number. This information is translated into a Data Matrix code that is also printed onto each carton for product tracking. Massimo Bonardi, Technical Manager says: "High-quality code printing was one of our main specifications for selecting an inkjet system. Using IPS with high-definition Jet Black Delta Plus ink, we achieve excellent code printing quality, which is also acknowledged by our customers in the field."



#### IPS Package Coding Solution

IPS (industrial Print System) is a powerful print system based on HP inkjet technology. It fits into virtually any manufacturing or packaging environment. The system combines control hardware, software, the finest print heads in the industry and an extensive range of inks. There is practically no material that cannot be printed on clearly, quickly and efficiently.

### Print Performance, Price and Space



Next to a minimum quality of code reading and trouble-free overall print performance, there were other reasons for Antares Vision to decide for

IPS. "As we needed to integrate the inkjet into our tracking system, space - or, even better, limited space - was a basic requirement for system selection as well," says Massimo. "IPS is a very compact, easy-to-integrate inkjet system that perfectly fits into our ATS. Software integration was easy as well. And last but not least, IPS proved to offer the best price/performance ratio available in the market."

### Customer Benefits for Pharma Production

Product serialisation will be a major issue in the pharmaceutical industry in the next few years. In addition to Turkey, several European countries will start rolling out their own regional product tracing rules and directives. The ATS already provides essential benefits to pharmaceutical manufacturers to comply with these new laws. Emidio Zorzella explains: "The major benefit is that the ATS will provide customers with a system that uniquely combines printing and checking processes. One interface is responsible for both, so there will never be any dispute as to whether problems were due to bad printing or bad reading, should that happen."

Another asset is that the ATS features a Global Tracking Management System. This allows manufacturers to control peripheral production equipment, like camera's or other printers, as well. At the same time, the system links into the company's ERP system to co-ordinate production, verification, warehousing and shipment processes. Finally, it releases all shipped codes into the central governmental database for product tracing up to the pharmacies distributing the medicine. And so, full product tracking is achieved.

### The Antares Tracking System

ATS-Antares Tracking System, is the complete solution designed for **track & trace applications in pharmaceutical environments**.

The philosophy behind ATS is completely modular and is based on a set of **redundant control loops**: material checking, data printing (either Data Matrix or HRC, Human Readable Characters), and print integrity checking.

The control loop is applied at **all packaging levels**: from single package up to bundling, cartoning and palletizing of the products.

Due to the double control process - input and output - **each station is independent from the others**: this redundancy assures reliability even in case of damaged boxes or removal in the areas of transport between two stations.

At shop floor level, the ATS software modules are running on **real time hardware platforms**, to ensure perfect data synchronisation even at the highest production levels.

At **ERP level**, ATS easily interfaces with corporate systems to receive unique code lists and transmitting data about the composition of the various packages (bundle, carton, pallet).

The use of handheld readers - also networked - enables **easy and safe exception management**, including boxes damaged, partially filled bundles, etc.



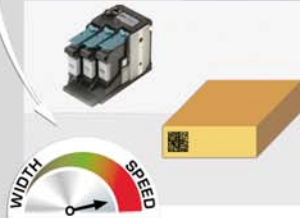
# ATS ANTARES TRACKING SYSTEM

**STS**  
SLAVE TRACKING  
SYSTEM

**MTS**  
MASTER TRACKING  
SYSTEM

**GTS**  
GLOBAL TRACKING  
SYSTEM

**COMPANY**  
ERP

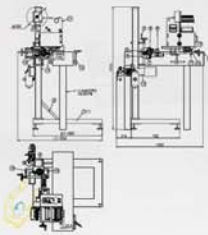
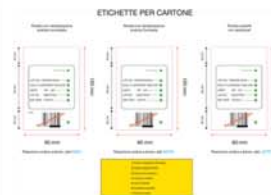


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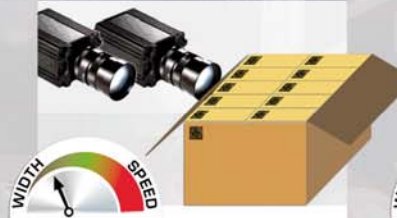
**STATION 1 - Print & Check**  
Prints and checks up to 500  
packages per minute

The small size fits easily in any  
packaging line



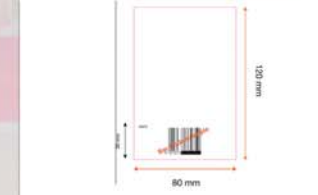
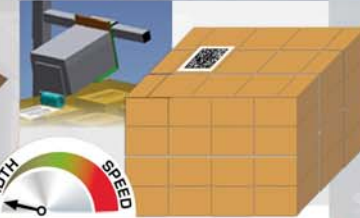
**STATION 2 - Bundling**  
A complete range of high  
performance cameras to meet  
most demanding requirements

Simultaneous reading of all  
Datamatrix codes on bundle



**STATION 3 - Cartoning**  
Simultaneous reading of all  
Datamatrix codes on boxes

Special moving multicamera  
systems to cover even the  
largest cartoons



**STATION 4 - Palletizing**  
Zebra Printer for manual labelling

Datalogic PowerScan for quick  
and reliable Datamatrix reading