ANTARES VISION

	EVO	ADVANCED	3T	ALL IN ONE	CHECK-WEIGHER

FUNCTIONS

	EVO	ADVANCED	3T	ALL IN ONE	CHECK-WEIGHER
PRINT&CHECK	•	•	•	•	•
WEIGHING	-	-	-	Optional	Yes
LABELLING	-	Optional	Optional	Optional	Optional
TAMPER EVIDENT SEAL	-	-	Optional	Optional	-
FULL RFID SERIALIZATION	-	-	Optional	Optional	-

FEATURES

	EVO	ADVANCED	3T	ALL IN ONE	CHECK-WEIGHER
PRINTABLE SIDES	2	3	3	3	3
TRANSPORT OF CARTONS	Double conveyor	Flighted belt	Flighted belt	Flighted belt	Flighted belt
MAXIMUM SPEED (cartons/min)	200-300	400	400	400*	300
CONVEYOR SPEED (m/min)	25-50				
CARTON SIZE (mm)	A= 30-120 B= 15-100 H= 65-200	A= 30-120 B= 15-100 H= 65-200	A= 30-120 B= 15-100 H= 65-200	A= 30-120 B= 15-100 H= 65-200	A= 30-120 B= 15-100 H= 65-200
REJECTION SYSTEM	Air jet blow Piston (optional)			2 reject systems, 1 specific for weight Air jet blow Piston (option)	2 reject systems, 1 specific for weight Air jet blow Piston (option)

* with weighing module: 300 cartons/min

PRINTING CHARACTERISTICS

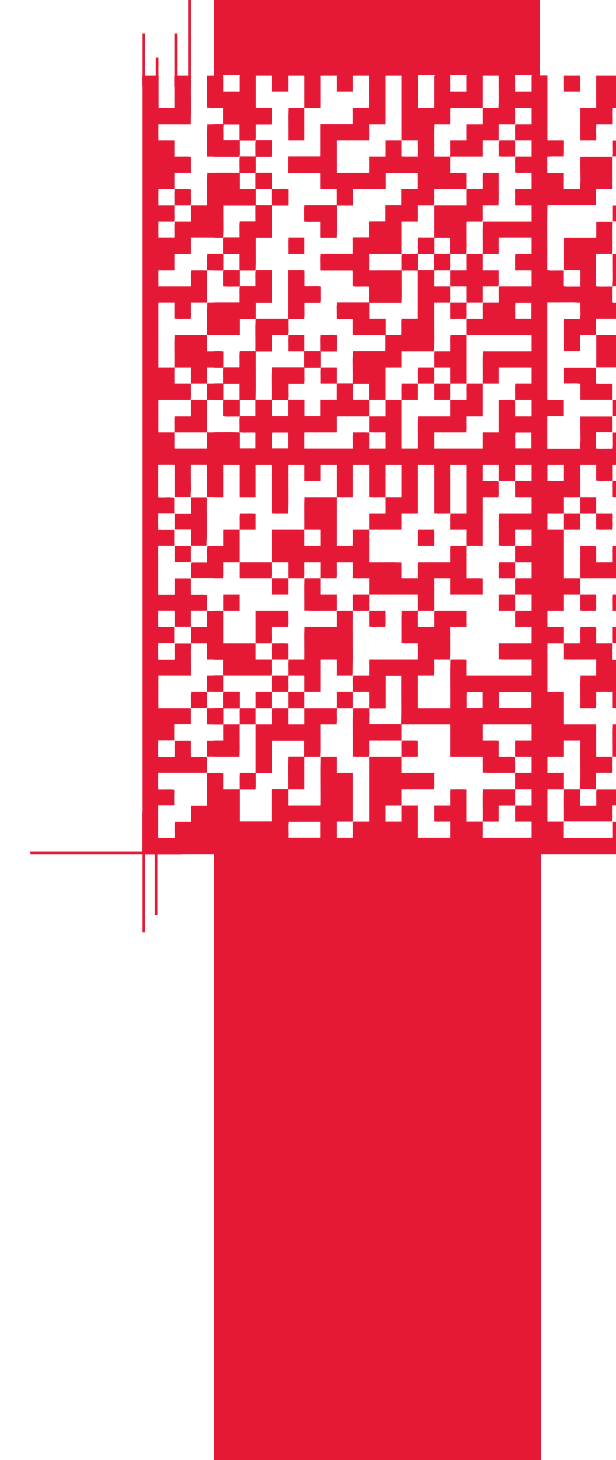|	EVO	ADVANCED	3T	ALL IN ONE	CHECK-WEIGHER
PRINTING TECHNOLOGY	HP TIJ 2.5	HP TIJ 2.5 - Laser available			
MAX NUMBER OF PRINT HEADS	1+3 optional	1+3 optional	1+3 optional	1+3 optional	1+3 optional
PRINTING HEIGHT OF EACH HEAD (mm)	12,7				
INK	Recommended: Antares Vision Pharma Black				
MAX RESOLUTION (dpi)	600				
DATAMATRIX PRINT QUALITY GRADE	Grade B typical, up to grade A on selected backings according to ISO/IEC 15415-2				

INSPECTION AND CONTROL

	EVO	ADVANCED	3T	ALL IN ONE	CHECK-WEIGHER
NUMBER OF CAMERAS FOR TRACK AND TRACE CONTROL	1-2	1-2-3	1-2-3	1-2-3	1-2-3
INSPECTION CHARACTERISTICS	Datamatrix recognition and verification, OCR/OCV on human readable characters (GTIN/CIP, LOT, EXP DATE, PROD DATE, SERIAL N°) Print quality grade evaluation of DATAMATRIX. OCR score check. Acceptance thresholds are settable by the authorized user				
OPTIONAL INSPECTIONS	Recognition of Pharmacode and all other linear or 2D barcodes				
		Label	Label Seal	Label Seal	Label

PHYSICAL FEATURES

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DIMENSIONS L x D x H (mm)	700 x 1120 x 2350	1315 x 1340 x 2350	1712 x 1260 x 2351	2438 x 1260 x 2360	1750 x 1065 x 1970
CONSTRUCTION	Stainless steel / anodized aluminum				

ELECTRICAL FEATURES

PLC	OMRON / SIEMENS
NETWORK CONNECTIVITY	Giga Ethernet
POWER SUPPLY	240VAC, < 1,5KW - UPS backup - laser printing excluded
INTERACTION WITH THE LINE	Sensing and drive of upstream and downstream machines, event driven

ANTARESVISION

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PRINT&CHECK DATAMATRIX AND SERIALIZATION

FEATURES AND BENEFITS

TRACEABILITY AND SERIALIZATION
- A real-time device manages all data, from serialization to the construction the parent/child relations at different packaging levels, assuring data consistency and security in any condition.
A UPS ensures data integrity in the event of a power failure.
The software is part of the ATS-Antares Tracking System architecture for total management at warehouse, plant and corporate level.

PRINTING ACCURACY
- Compliance with proportions and absence of print deformation thanks to the high performance controller and to perfect synchronization with belt speed.

ONLINE CHECK OF DATAMATRIX PRINT QUALITY
- In addition to Datamatrix recognition, the vision system also performs the grade evaluation according to ISO/IEC 15415 standard for the following parameters: contrast, modulation, fixed pattern damage, axial non uniformity, grid non uniformity, unused error correction.

QUICK AND EASY SIZE CHANGEOVER
- Print heads and cameras move jointly on the rails: simple counters ease format changeover.

HIGH THROUGHPUT
- Up to 400 cartons per minute, thanks to highly reliable mechanical components and vision system processing power.

HIGH PERFORMANCE EXCLUSIVE INKS
- Water based, fast-drying and high contrast inks, formulated for the most demanding graphic applications. Alcohol based inks are available to print on varnished surfaces.

CARTRIDGE INK LEVEL CONTROL
- An alarm warns the operator when the ink level is below a minimum. Cartridges are very easy to replace.

HEAD PROTECTION AND CLEANING KIT
- A plastic cap is available to protect the head from drying out in the event of prolonged inactivity. The cleaning kit minimizes ink loss and avoids head damaging.

ALTERNATIVE PRINT TECHNOLOGIES
- Laser/DOD printing system available upon request.

RFID TECHNOLOGY
- Integration with full RFID technology available both for serialization and aggregation.

REJECTION SYSTEM
- Air-blow or mechanical (optional for large or heavy cartons).
- Photocell check to control effectiveness.

INTERFACE WITH MANUAL READER
- For code verification and reconciliation in tracking applications and for automatic input of production orders from printed barcodes.

HIGH RESOLUTION CAMERAS
- High-speed megapixel cameras for all inspection functions, simultaneously performed.
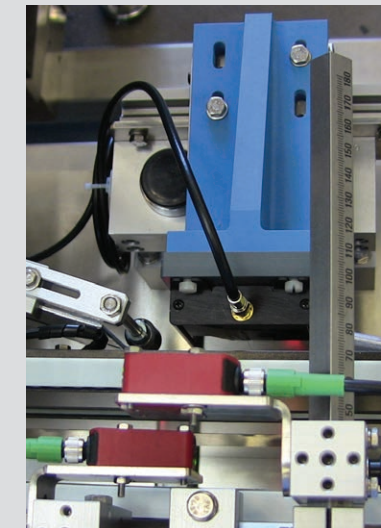
REMOTE ASSISTANCE
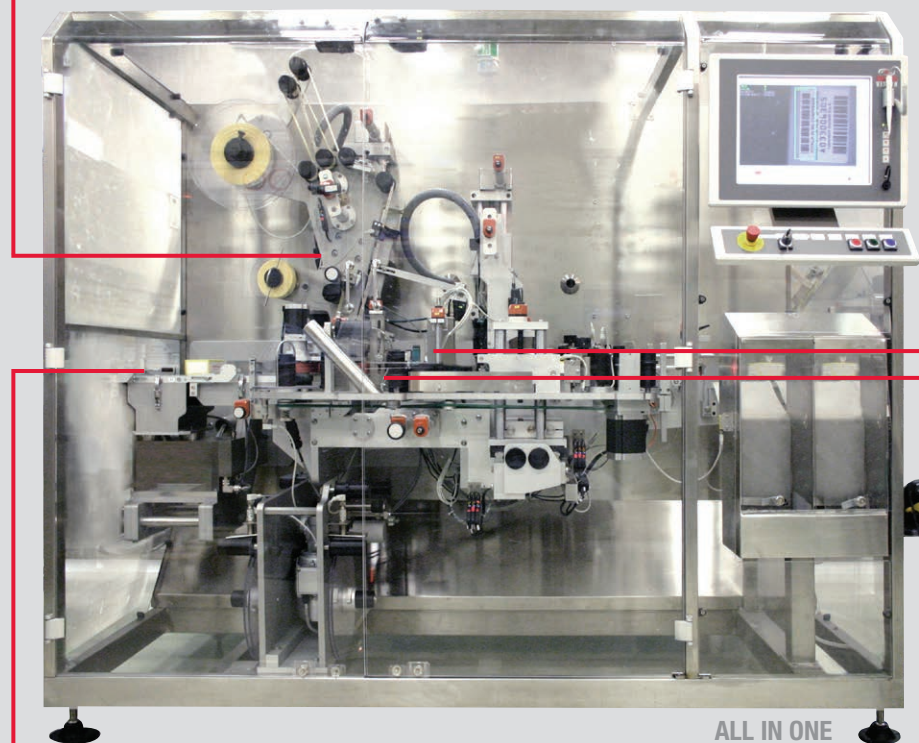- Remote support through network connection.
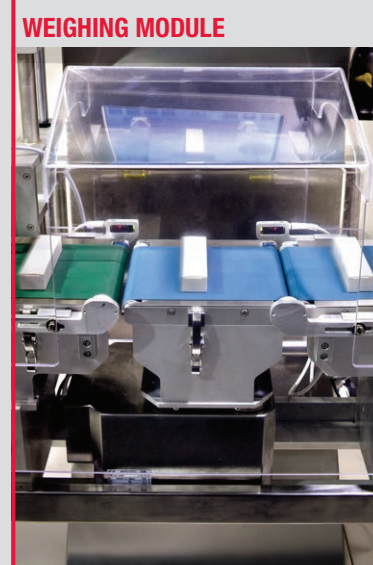
21CFR part 11
- Interface module complies with standard.

PRINT & CHECK DATAMATRIX AND SERIALIZATION

Print & Check is the complete family of serialization modules compliant to the current and upcoming regulations on traceability and e-pedigree.
Besides printing and verifying the Datamatrix and variable data, Print & Check can integrate labelling modules for "French vignette" or "Italian Bollino", check-weigher, and tamper-evident-seal modules thus allowing a great saving of space on the packaging lines.
Laser printing and RFID technologies are also available on request.

DATAMATRIX KIT
All Print and Check components are available for machine integration. This is the ideal solution to retrofit machines like cartoners and bundlers, or along the packaging conveyors when space for a stand-alone station is not available.

LABELLING MODULE

FULL RFID INTEGRATION

ALL IN ONE

WEIGHING MODULE

UP TO 3 PRINTING HEADS

EVO

ADVANCED LASER PRINTING

3T LASER PRINTING

CHECKWEIGHER WITH LABELLING

EVO
The most widely used integrated solution on the market. Quick and easy to fit into the line and occupying just 700 mm, it can print and verify on carton flaps. Upper and lower conveyors keep cartons stable, thus making printing reliable.

ADVANCED
Absolute "printing freedom": prints and checks up to three surfaces (two sides and top). The flighted belt system keeps the carton perfectly positioned during printing and subsequent checking.
A shaft encoder is keyed directly on the drive ensuring deformation-free printing.

3T
The serialization machine featured by a high degree of flexibility that combines printing and inspection functions on up to three sides of the carton with the possibility of labelling function for Italian Bollino/French vignette and tamper evident seals application in a reduced space (1,7 meter).
Separate inspection cameras verify the correct labelling or sealing operation.
Print & Check 3T can reach an output of up to 400 cartons/min.

ALL IN ONE
Combines printing and inspection functions on up to three sides of the carton with the weighing and labelling function for "Italian Bollino", "French Vignette" and tamper evident seals application for anticounterfeiting.
A double reject system allows for discriminating the weighing from printing/ labelling rejects. Separate inspection cameras verify the correct labelling or sealing operation.

CHECKWEIGHER
Integrates printing and inspection functions on up to three sides of the carton with the weighing and optional labelling function for Italian bollino" or French vignette.
A double reject system allows for discriminating the weighing from printing rejects. Separate inspection cameras verify the correct labelling or sealing operation.