

CODING MACHINE

AGGREGATION



AMACODER

- Short machine 1.08m
- Barcode and human readable print (up to 4 heads)
- Quality control camera (2 Mpix) ISO 15415 compliant
- Tamper-evident label application and control
- Reject Station
- Box Sizes:
 - 50-**300**mm depth
 - 30-200mm width
 - 15-150mm height
- Speed up to 150 pcs/minute

AMAJOINER

- Works as independent unit for manual folding box aggregation
- 20 Mpix Camera
- Autofocus, Autozoom
- Wireless Hand Scanner, Thermo-transfer Printer
- Box size up to 650x300x400
- Adjustable working height (sitting, staying operation)



AMACODER-C

- Short machine 76 cm
- Barcode and human readable print (up to 4 heads)
- Quality control camera (2 Mpix) ISO 15415 compliant
- Reject Station
- Box Sizes:
 - 50-**300**mm depth
 - 30-200mm width
 - 15-150mm height
- Speed up to 150 pcs/minute



CONTACT

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Swiss Experts in Track & Trace
Hardware and Software

Hicof Inc., Roosstrasse 53, 8832 Wollerau, Switzerland

ABOUT US

Hicof Inc. is a family owned Swiss software and hardware supplier for Track & Trace/ Serialization and product security systems. We are profiting from 19 years of experience in implementing Serialization and Product Security projects in the pharmaceutical industry. Our customers are first tear global players as Novartis and Roche but also mid-sized and smaller pharmaceutical companies down to highly specialized orphan drug manufacturers and contract manufacturers. One of the learnings out of our work is, that in parallel to the physical implementation of the machine & software system its validation and qualification, organizational work, user training and master data management is of paramount interest for success. Our implementation support covers therefore also these topics.

Based on this know-how, Hicof developed from scratch, using state of the art cloud native software technologies the next generation of Track and Trace Software. In parallel the innovative AMACODER line (patents applied) is the first and only intermittent working coding



line. Our products offer cutting edge technology for the industrial track and trace applications.

Located in the heart of Europe, Hicof profits from the local Swiss quality philosophy in production, engineering and software development leading to products meeting the highest standards. Recruiting the majority of our staff from leading European Universities as e.g. the Swiss Federal Institute of technology (ETH Zurich) we were able to develop the highly innovation driven product portfolio offering a multitude of unmatched features.



SOFTWARE

Hicof Amacena is the Track and Trace software suite offering a solution from machine to governmental level. Easy to use and cost effective in installation and operation Amacena is offering for every enterprise the right functionality. Some of the key advantages are:

- Beside the machine manufacturer, normally customers need for serialization software one or more additional suppliers. Hicof offers an integrated system, consisting in the coding/aggregation line and the Hicof AMACENA serialization software. The advantage:

ONE SYSTEM -> ONE SUPPLIER -> ONE RESPONSIBILITY

- In our standard configuration, the AMACENA software is hosted on a cloud¹. As operator of the software, Hicof is responsible for its validation according GMP requirements. Benefit for the customer:

NO SOFTWARE VALIDATION (CSV) REQUIRED -> LESS COST

- As centrally managed system, AMACENA servicing, software updates and customer support can be provided by remote access:

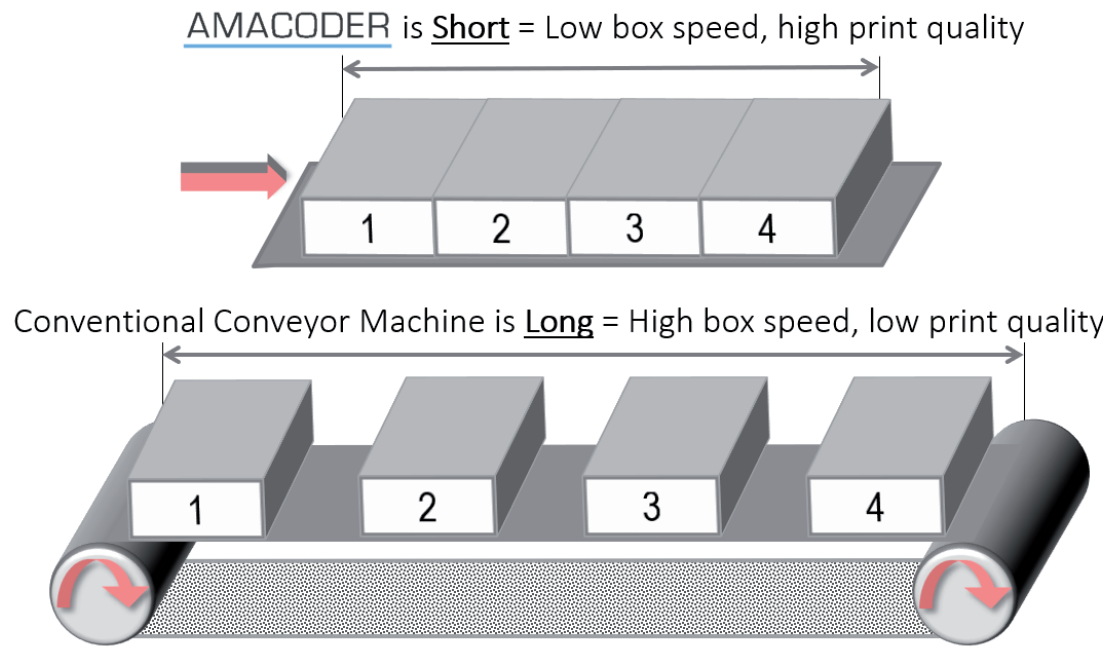
EASY SYSTEM USE, NO EXPERTS NEEDED

- Interfaces between business partners MAH's (Market Authorization Holders) and CMO's (Contract Manufacturers) and Governmental Servers (e.g. EMVO) is included in AMACENA. Benefit:

NO ADDITIONAL COST FOR INTERFACES

¹Solution is also available as on premise installation

CODING PRINCIPLE



Hicof is the first and only company, offering a coding and labeling line which works intermittently. The unique, patent applied concept of the Amacoder is using pushers for transporting the boxes through the machine, avoiding conventional conveyors. It works as follows: A feeding pusher displaces incoming boxes laterally, in front of a second pusher which shifts the boxes through the Amacoder. Through this transport rationale a stack of boxes without spaces between them is created. The benefit of this design is as follows:

- The total length of a machine is given by the total length of the boxes and the total spaces between them. In the AMACODER are no spaces between the boxes, therefore the machine is shorter than conventional ones:
AMACODER IS SHORT -> SHORT MACHINE COST LESS
- As the AMACODER is short, the average transport speed is only 15 m/min compared to 50 m/min in conventional coding lines: Benefit:
LOW TRANSPORT SPEED -> HIGH CODING QUALITY -> LOW REJECT RATE (BELOW 1%)

