3.4 - BESCHREIBUNG DER MASCHINE

Digiline Label Offline ist eine eigenständige automatische Maschine mit hoher Produktionskapazität zur Durchführung folgender Aufgaben:

1. Abwickeln von Rollen von Haftetiketten (von 20 bis 80 mm Breite);
2. Bedrucken von Etiketten mit variablen Daten und 1D/2D-Codes mit Atlantic Zeiser DOD UV CURING-Technologie;
3. Prüfen von Text und Codes auf Inhalt und Qualität dank einer hochauflösenden Kamera;
4. Aufwickeln der bedruckten Bahn rückwärts auf den Abwickler, so dass die Etiketten auf der fertig bedruckten Rolle ihre ursprüngliche Ausrichtung behalten.

DLL-OL wurde mit einem speziellen, auf zylindrischen Leitwalzen basierenden Bahntransportsystem (Rolle-zu-Rolle-Verfahren), einem Druckkopfwagen, der DOD UV-Druck ermöglicht, einer feststehenden Kamera zur Prüfung der Druckqualität und einer Station zur Etikettenaussonderung ausgestattet.

Eine vollständige Beschreibung der von AZ gelieferten Standardkomponenten finden Sie in der AZ-Dokumentation im Anhang dieses Handbuchs.

Als zusätzliche Funktion bietet diese Maschine die Rückaufwicklung der bedruckten Etiketten zur Bewahrung der ursprünglichen Ausrichtung der unbedruckten Etiketten auf der Bahn.

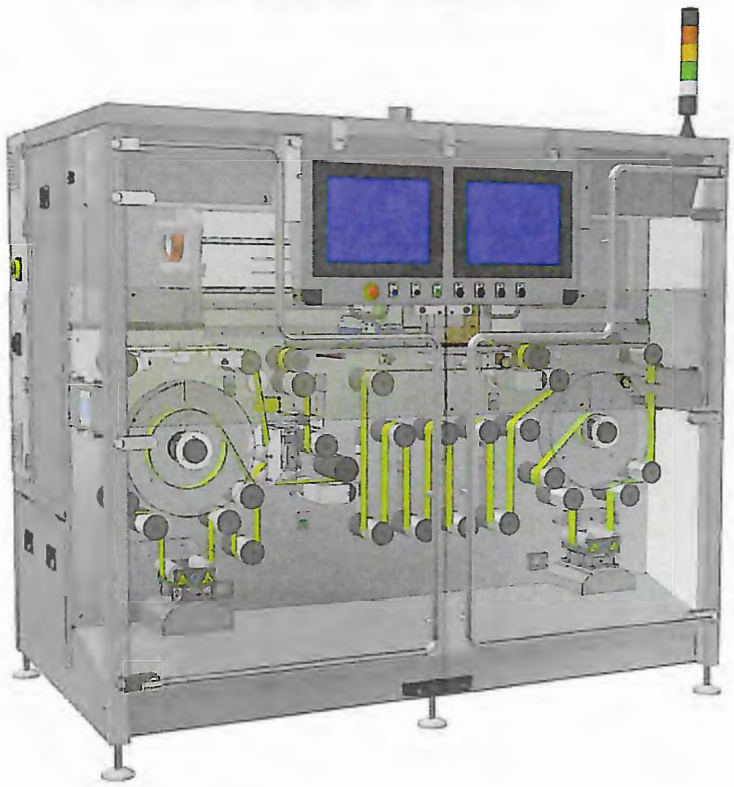


Abb. 3.4.1 - Digiline Label Offline

3.4.1 - MASCHINEN-WORKFLOW

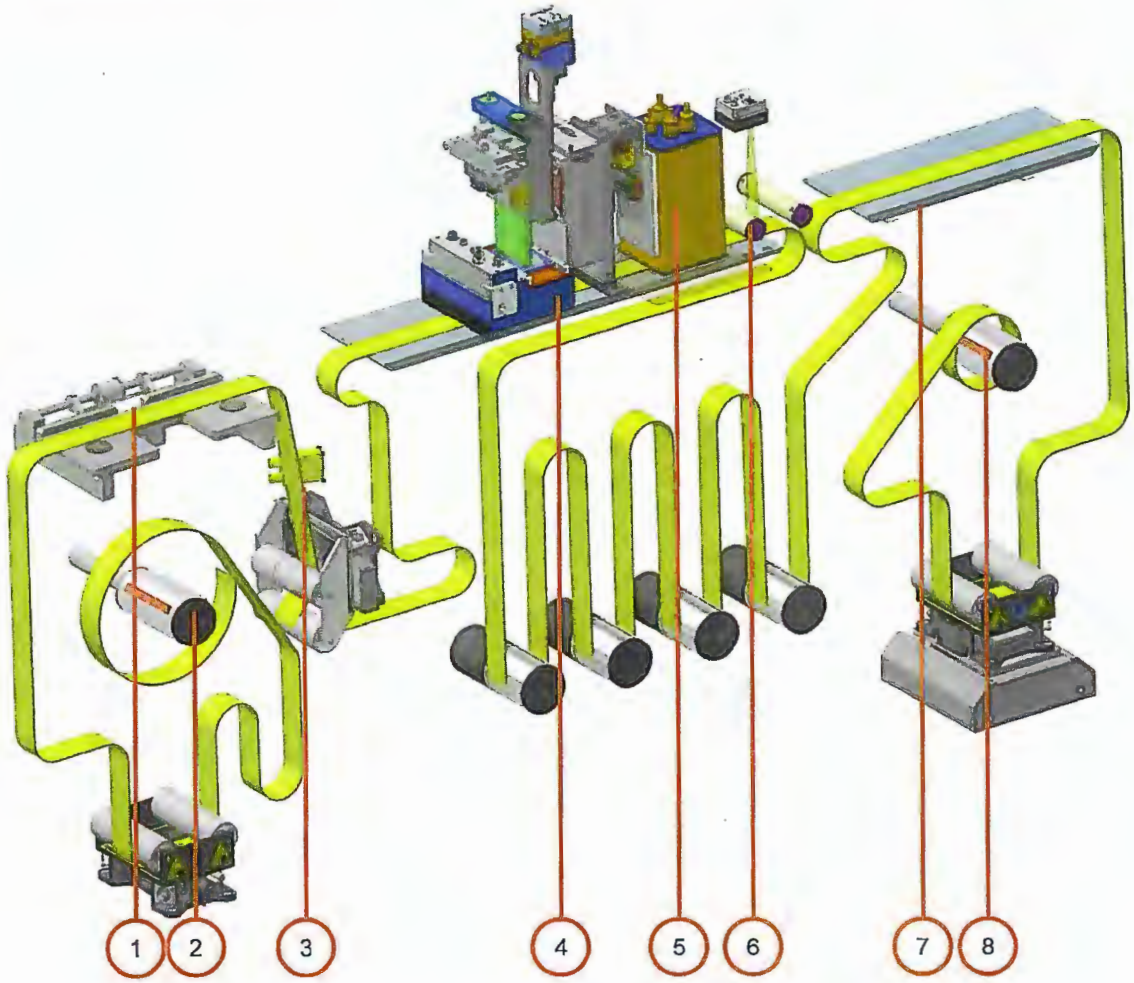


Abb. 3.4.2 - Workflow Digiline Label Offline

Legende:

Ref.1	Spleisstisch
Ref.2	Abwickelspannwelle
Ref.3	Bahnkanntensteuerung
Ref.4	Druck und FreezeCure
Ref.5	Endtrocknung mit SmartCure
Ref.6	Druckkontrolle
Ref.7	Manuelle Etikettenentnahme
Ref.8	Aufwickelspannwelle

NEW

ATLANTIC ZEISER

digiline Label – Offline

System Solution for Central Coding of Labels

- Supplying high speed printing for multiple packaging lines simultaneously
- Integrated Unique Code Software for process safe serialization
- Outstanding printing quality and durability
- Low operating costs

Unique Code Software included
UCS
Secure Serialization Process

Abrasion- and Solvent-Resistant
MEDICINE

ATLANTIC ZEISER

digiline Label – Offline

The key to efficient and process safe label printing

Looking for a cost-efficient system solution for central late stage printing and serialization of flat labels? Do you place great importance on consistent and durable printing quality as well as maximum process safety to avoid duplicate serial numbers?

DIGILINE Label – Offline offers everything that you can expect from a modern system solution for central coding of labels, especially features which are usually not attainable with common thermal transfer printers, be it as label manufacturer, printer or pharmaceutical company

Thanks to the optionally available Unique Code Software (UCS) it is possible to render the serialization of labels completely process safe – potential sources of error get identified and eliminated. Consistent serialization results are even guaranteed after planned and hazardous interruptions in production. At the same time an almost infinite amount of code ranges can be administrated and the reporting and forwarding of serialization data is an integral part of the software.

In addition DIGILINE Label – Offline captivates with a sophisticated design and a multitude of useful features that allow efficient and profitable late stage printing and serialization of labels.

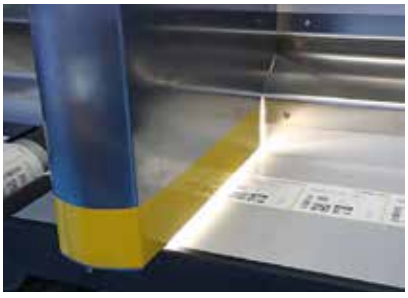
- High printing speed from roll to roll for the central supply of multiple packaging lines with labels or a just-in-time delivery from outside
- Consistent high printing quality on different label materials thanks to contact-free drop-on-demand UV inkjet technology
- Excellent lightfastness and durability thanks to UV curing inks. Labels printed with DIGILINE Label – Offline are fully resistant to wear, abrasion and alcohol-based solvents
- High resolution inspection camera with doctoring station and patented “re-check function” for maximum process safety and reliable elimination of faulty labels
- Up to 30% less cost of consumables compared to commonly used thermal transfer technology

When encountering some of these challenges DIGILINE Label – Offline is the right solution:

- Cost-efficient, central late stage printing, coding and serialization of labels
- Resistance of the print-outs to wear and abrasion in further processing, in the overpack or when being used by final customers
- Serialization in consistent high code quality – especially when dense, compact codes are requested
- Need to ensure high process safety even with frequently changing machine operators
- Prevention of potential process errors as well as duplicate serial numbers
- Audit-proof administration of production data and code ranges over a multitude of products or jobs
- Reduction of operating costs

The centerpiece of DIGILINE Label – Offline is the contact-free OMEGA DoD UV inkjet printer. It guarantees even at high production speeds a brilliant and durable printing quality. The optional automatic cleaning station ensures full availability.

The high resolution inspection camera can be easily set up over an intuitive user interface. The camera accurately checks content and quality of code and text elements. On demand all results can be directly reported to the database of the Unique Code Software.



The doctoring station allows the easy and reliable manual removal of labels that have not been accepted by the vision system. Thanks to the patented „re-check function" the reworked area can be inspected again – maximizing process safety.

Technical Specifications	DIGILINE Label – Offline
Typical Products	Flat, single-layer labels made of PP, PET, PVC or paper with a width of 20 – 165 mm I 0.79 – 6.5 inches and a maximal length of 140 mm I 5.5 inches (partly or fully transparent label and carrier ribbon)
Printing System	OMEGA DoD UV inkjet (print width 36, 72, 144 mm I 1.4 , 2.8, 5.7 inches)
Resolution	360 x 360 dpi
Curing	UV-A LED
Max. Printing and Transporting Speed	60 m/min
Camera System	Line inspection camera for code verification and quality control with OCR/OCV functionality, 4096 x 2048 pixel with integrated lighting
Max. Diameter of Unwinder and Rewinder	450 mm I 17.7 inches (core diameter 76 mm I 3 inches with pneumatic locking mechanism)
Power Supply	400 VAC ±10 % / 50 or 60 Hz / 3 phases + N + PE / 16 A
Consumption	14 500 W
Compressed Air Supply	6 bar I 87 psi
Standard Features	Housing made of stainless steel, transporting mechanism with automatic web-guide, integrated splice table, OMEGA printing system with UV-A LED dryer, doctoring station with patented re-check function
Optional	Unique Code Software database application, automatic cleaning station for the print head, doors and side parts made with tampered glass, user software compliant to CFR 21 Part 11, PLC from Allen Bradley instead of Omron, hand scanner
Weight	Approx. 800 kg I 1765 lbs
Dimensions (l x w x h)	1600 x 900 x 1800 mm I 63 x 35.5 x 71 inches (without signal lamp)

DIGILINE Label is also available as a nearline version for fast and direct supply to labeling machines.