Avery Dennison / Novexx ALX-924 Printer Applicator

The most robust high performance Printer Applicator available today

The ALX-924 Printer Applicator is our latest generation of industrial print and apply labeling equipment. It provides high performance, state of the art printing technology and extreme durability in a compact package. Our entire line of automated labeling systems are designed for 24/7/365 operation to ensure your production lines run non-stop.

STANDARD FEATURES

Designed for 24/7 Operation
Stepper Driven Rewind for Precise Tensioning Opto-Isolated External I/O for PLC Integration Real-Time Clock
Ribbon Saver
Provides Substantial Ribbon Cost Savings! Dot-Check Ensures Barcode Quality
High Speed Multi-Tasking 64-Bit Microprocessor
Ethernet TCP/IP/USB/Serial Data Interface
Web Browser Based Interface for Control & Monitoring of all functions
Multi-Lingual Display (Rotates 355°)
Simple Operator Interface w/optional remote mount High Accuracy
No-Tool Printhead Replacement Optional- RFID Capable
Stand Alone Operation
No PC required on production floor!
Variable Data Input via Display

SPECIFICATIONS:

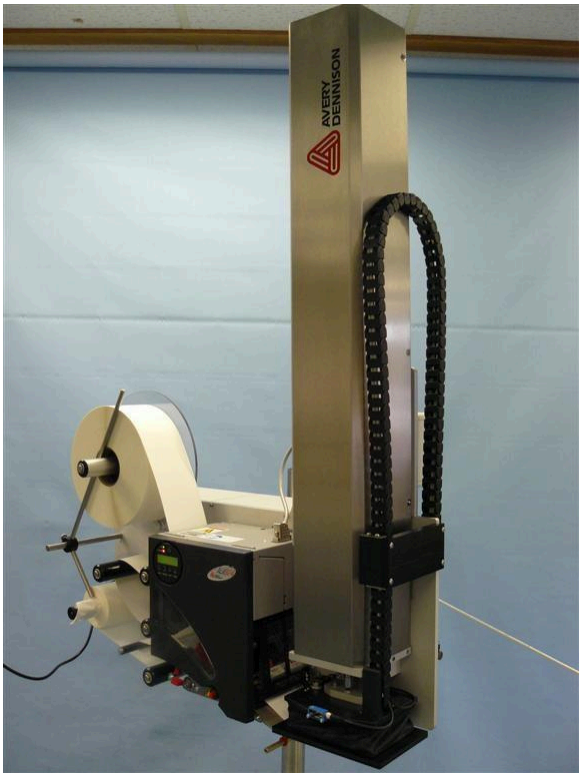
106mm Print Width
130mm Media Width Including Liner

400mm/ Second Print Speed @ 305 DPI Print Resolution
1000 meter Ribbon Capacity (Optional)

450mm (~18")Ø Supply Roll/ 76mm Ø Core
+/- (.5mm) Accuracy @ Dispense Edge

Electrical Requirements:
Dedicated Line: 230 volts, 50-60 Hertz, 1 phase, approx 5 amps.

Pneumatic Requirements:
Clean, dry, non-oiled compressed air, 7 bar @ .141 cm/m



STOCK PHOTO-MACHINE MAY DIFFER PER APPLICATION

LABEL DESCRIPTION
65mm wide x 35mm long Die-Cut w/ PPS Adhesive (Non-Perforated) 76mm ID Core 450mm OD Roll

PRODUCT DESCRIPTION
Various Packages-Primarily Cartons up to 450mm tall.*

SYSTEM APPLICATION
The proposed hardware will print and apply the Sort Assist Label to the top surface of parcels at rate of 2500/hour*. Parcels will be manually placed on the system conveyor with the shipping label facing upwards.

The first section of conveyor will align the parcels and justify them to a fixed edge. Parcels will then transfer to the metering sections that will space the cartons to the correct pitch for scanning and labeling. The parcel will transfer to the scanning section and the shipping label will be scanned. The data will be transmitted from the system control PLC to the Customer Host System. The Customer system will respond*, sending the shipping label barcode and the print data via a ZPL data string. The system control PLC will track the package to a virtual point within the system and then transmit the ZPL data and parcel height to the printer applicator*.

The printer applicator will engage and the servo driven tamp will extend to the predetermined height and cause the label to adhere to the parcel. The tamp will immediately retract in preparation for the next cycle.

The system control PLC will continue to track the package to the verification scanner, where the label will be verified and that it has been applied to the correct package. If the label has been verified correctly, the package will transfer off the system onto the existing sortation system*. If the label is missing or incorrect, the system will stop. An operator will intervene at the last zone of the system. Once the error is corrected, the operator will depress a button to resume system operation

***APPLICATION NOTES:** Pending live testing and actual average parcel sizes, higher throughput may be possible. The scanning station may need to be moved upstream to allow for the response time of the Custromer Host System. Net throughput will be dependent upon the response time of the Customer host system. Any inherent network latency will reduce overall throughput. In the event an error condition occurs, the system will stop. An associate will intervene to determine the reason for the error condition, (out of labels for example) remedy the fault and make it ready. If a sort/direction decision is to be made as the parcel transfers off the end of the proposed system, current state is this will done manually by an associate. Future state this may be automated. The automation of this process is not included in this proposal.

PROPOSED SOLUTION
ALX-924 Printer Applicator
Novexx OEM Printer
RH or LH Configuration
400mm/ Second Print Speed @ 305 DPI Print Resolution
Heavy Duty Anodized Plate Aluminum Chassis
Dynamic Stepper Driven Rewind Control (No clutch!)
Multi-Lingual Display (Rotates 355°)
Servo Tamp Applicator Module
- 525mm Macron Dynamics Linear actuator
- Yaskawa SY 450W Servo Motor

450mm Supply Roll
Optical Low-Label Sensor
Optical Web Break Sensor
Parcel Detect Sensor
Light alarm stack assembly (requires low label sensor)
- Amber - low label
- Red - Error/end of web
- Green - “Ready”

Automated Scan & Label Induct System Conveyor
600mm Wide x 3300mm Roller Conveyor- Loading
600mm Wide x 1300mm Long Alignment Conveyor
600mm Wide x 2400mm Long 2-Stage Metering/Scanning Conveyor
600mm Wide x 3000mm Long Station Height Detection, Labeling & Verification Conveyor
600mm Wide x 2300mm Long No Read Stop
System Control PLC
Hardware Control Package
Ethernet Gateway
Inbound Scanning Station
Height Detection System
Outbound Scanning/Verification Station
Control Panel
Fully Integrated Labeler Mounting Stands
Heavy Duty Steel Framing
Elevation 800mm (+/- 250mm)