

# TPL-30 Series Semi-Automated Al Pen Labeller Fixed Format Pen Labeller with Thermal Transfer Printer



Fixed Format Auto Injector Pen Labeller - Typical Configuration

Pens are manually loaded into the machine, labelling up to 30 pens/min. The labeller prints three lines of batch data (LOT, MFG, EXP), entered manually via the HMI or automatically downloaded from an MES/ SCADA system. Vision inspection cameras verify label position, presence, and variable batch data. Pens with non-conforming labels are rejected into a bin, with reject verification, machine stoppage after three consecutive rejects, or bin full alerts. Verified pens are either manually removed or transferred to a buffer area holding up to 30 pens.

#### **Features and Benefits**

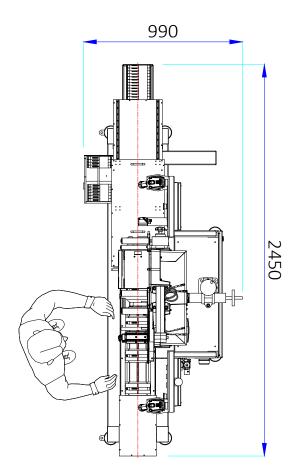
- Pen carriers with rollers for correct labelling postioning
- Ergonomic design within a compact footprint
- Easy access for line clearance, cleaning and maintenance
- Colour touch screen operator HMI
- Gentle product handling via servo control
- OCR and 2D data matrix verification of variable data
- Vision inspection of label position/ presence with reject
- CE marked and issued with CE cert of conformance

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## **Technical Information**

Base Machine Modules	<ul> <li>Control Panel – AISI 304L, IP66</li> <li>Servo Controlled Transfer Conveyor</li> <li>Auto Injector Pen Carriers</li> <li>Thermal Transfer Print and Apply Labeller</li> <li>Vision Inspection and Verification System</li> <li>Integrated Reject Bin with Reject Verification</li> </ul>
Machine Frame	<ul> <li>304 Stainless Steel with Polished Finish</li> <li>Anti-Vibration Support Structure</li> <li>GMP Features to Prevent Contamination</li> </ul>
Control System	- Allen Bradley, Schneider or Siemens Options
Software Functions	<ul> <li>Format Control Settings List/ Data Location</li> <li>Connection to MES/ SCADA</li> <li>Verification of Batch Data and 2D Matrix</li> <li>21 CFR Part 11/ EU Annex 11 Ready</li> </ul>
Safety	<ul><li>E-Stop On The Main Operator Panel</li><li>Power Isolator With LOTO</li></ul>



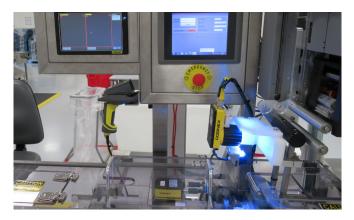
2D Layout of Auto Injector Pen Labeller - Typical Configuration

#### **Operator Interface**

HMI Display	<ul> <li>Colour Touch Screen</li> <li>Fixed Mounting In Stainless Steel Panel</li> </ul>
Operator	<ul> <li>Alarms, Warnings, Operator Prompt Messages</li> <li>I/O Status Check</li> <li>Machine State (Ready, Running, Alarm, etc.)</li> <li>Counters (Throughput Rate, etc.)</li> <li>Standard Password Protected Local Machine</li></ul>
Controls	Access Levels

### **Service Specifications**

Electrical Supply	- 400v, 50Hz, 3 Phase, Neutral + Earth
Compressed Air	- 6 Bar Clean Dry Compressed Air
Control Voltage	- 24 V DC (Internal)
Pneumatics	- Festo, SMC or Bosch Rexroth



Print and Apply Labeller and Vision Inspection System



#### 2D Matrix, OCR and Label Position Inspection and Verification

# Customised Engineering & Integration

24/7 Technical Support

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