

The RPA8000 is a standalone robotic printer applicator cell with the FANUC LR Mate 200iD/7L robot. Created using Vanomation's XYZ patent, the RPA8000 eliminates the requirement for a separate controller network by embedding the spatial coordinates for the label directly into the label data print stream. This guarantees that each label will be placed on the right product in the right location.



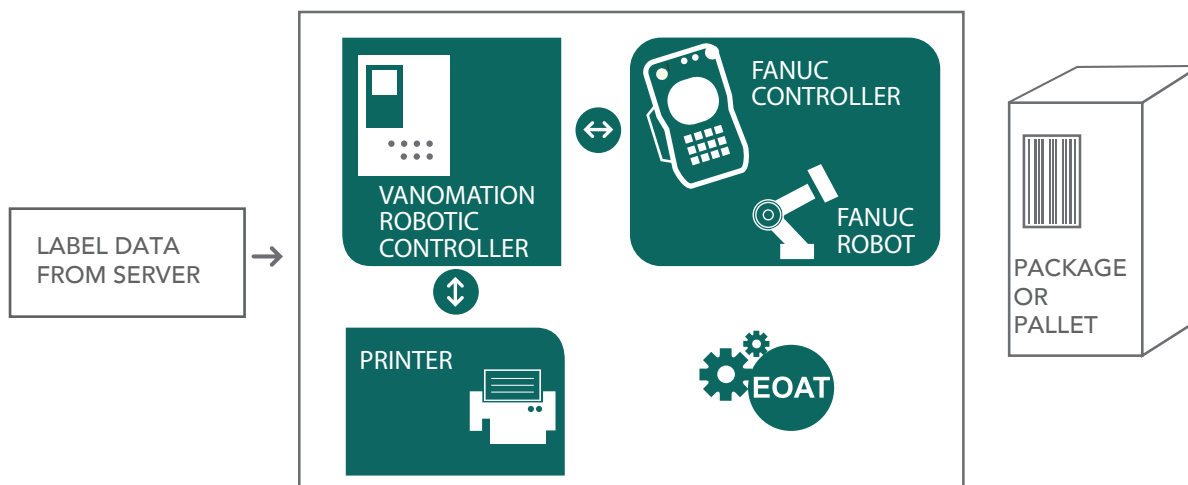
The RPA8000 ships as a complete system ready to be positioned against the conveyor system to begin applying labels with a minimum of effort.

THE VANOMATION RPA8000
has five core components

- Vanomation Robotic Controller
- Vanomation Thermal Barcode Printer
- Vanomation Steel Frame Cell
- FANUC LR Mate 200iD/7L Robot
- FANUC R-30iB Controller

OPTIONS AVAILABLE

- Standardized Safety Zone
- High throughput label printing
- Uninterruptible label printing
- Validating label application
- Barcode data verification
- Dynamic label placement



APPLICATIONS: Labelling on pallets and packages from 1.0"W x 0.5"L up to 8.5"W x 11.0"L

RPA8000 FEATURES

- Single operator control display panel
- Automatic and manual printing modes
- Automatic robot pause with E-stop and safety door
- Dual printer/label tray for easy operator/maintenance servicing
- Variable placement of label based on pallet/package size
- Accurate placement of label within 0.1" or 2.5mm

VANOMATION ROBOTIC CONTROLLER

HARDWARE SPECIFICATIONS:

- I/O interface PCBA
- 24 VDC power supply
- 110 VAC single phase power
- Dual printer/label tray for easy operator/maintenance servicing
- Status light tower (R/Y/G/B)
- Industrial power/IO distribution enclosure (24" W x 20" H x 8" D)

SOFTWARE SPECIFICATIONS:

- Dedicated I/O for printer status and command
- Patented XYZ spatial data for label placement
- Automatic or Manual mode
- Ethernet status messaging (optional HMI)

VANOMATION THERMAL BARCODE

- Thermal transfer and direct thermal printing
- Max Print Speed (4"/6"/8"): 14/12/10 IPS @ 203dpi
- Automatic robot pause with E-stop and safety door
- 1D & 2D barcodes
- IGP Languages: PGL/VGL/ZGL/TGL/IGL/ST_GL/DGL/IE GL/MGL
- Standard Interface I/O: Serial RS232, USB, and Ethernet (optional wireless)

VANOMATION STEEL FRAME CELL

Welded steel frame

Painted

- Industrial grade (gray/white)

Weight

- 415Kg

Dimensions

- Width: 1400mm
- Height: 2070mm
- Depth: 840mm

FANUC LR MATE 200iD/7L ROBOT

- 911mm horizontal reach
- Standard hard-mount EOAT
- Optional one-touch tool changer
- Built-in Z compliance
- Pneumatic air and electric options

FANUC R-30iB CONTROLLER

- IP65-67
- Single phase 240 VAC
- Standard Teach Pendant

RPA8000 OPTIONS

Safety Zone (SAF) - Standardized safety fences and light curtains to disable robot operation in the event of human intervention

High Application Throughput (HAT) – Configures a second robot arm in the cell to increase the speed of package throughput

Uninterruptible Print Processing (UPP) – Configures a second printer in the cell to ensure that there is no downtime while labels are loaded or printheads are replaced

Validate Applied Label (VAL) – This hardware option ensures the label has been applied to the pallet or package

Barcode Data Verification (BDV) – Hardware/software ensures that the data can be read from the barcode label and this data is the same as the data sent to the printer

Dynamic Label Placement (DLP) – The vision/3D profiler is a hardware/software option that detects package size and orientation to determine where to correctly place the label

