

# Palletizer MachineApps Software Features & Compatibility

## Contents

[Overview](#)

[Features & Compatibility](#)

[General](#)

[Pallet Configuration](#)

[Pendant](#)

[Possible Customization](#)

[Supported Robots](#)

[Supported Bases](#)

[Supported Grippers &](#)

[Adapters](#)

[Supported Conveyors](#)



## Overview

Vention's Palletizer MachineApps is an easy-to-use and intuitive software to configure, program and operate your palletizer. It is compatible with robots from Fanuc and Universal Robots and comes pre-loaded on the Vention pendant. Using the Palletizer MachineApps intuitive interface you can create new configurations (boxes, slip sheets and pallet patterns) in 4 simple steps and in a couple of minutes. The Palletizer MachineApps includes features such as slip sheet management, multi-pick, unlimited SKU and pallet recipe combination, easy 3-step calibration, label management, password lock, error and notification management, live progress monitor screen and more.

## Features & Compatibility

### General

- Intuitive 3-step calibration
- Reduced speed in collaborative mode
- Multi-pick (1 to 3 boxes) and single drop
- Automatic recovery
- Compatibility with MachineAnalytics
  - Cycle time
  - Uptime/downtime
  - Number of cycles
- Full pallet indicator
- Missing pallet indicator
- Missing boxes indicator
- Free drive

### Pallet Configuration

- Single or double pallet setup
- Creation of boxes of all sizes (reach study / robot dependant)
- Creation of pallets of all sizes (reach study / robot dependant)

- Label management (up to 2 labels per box)
- Creation of slip sheets of all sizes (soft and hard slip sheets, up to 4 slip sheet magazines)
- Fully configurable pallet patterns with created pallets, boxes and slip sheets
- Automatic configurator
  - Automatic layout generation/optimization
  - Automatic sorting
  - Automatic stack generation
- Unlimited recipes

## Pendant

- Live progress monitoring page
- Password lock
- On-demand remote support
- Imperial or metric unit selection

## Possible Customization

- SKU-specific acceleration
- Injection of custom code for:
  - Home sequence
  - Recovery sequence
  - Slip sheets sequence
- Configurable picking conditions (i.e. robot only picks if a defined input is true)

## Supported Robots

- [Universal Robots UR10e](#)
- [Universal Robots UR20](#)
- [FANUC CRX-25iA Collaborative Robot](#)
- [FANUC M-20iD/35](#)
- [FANUC M-710iC/45M](#)

## Supported Bases

- [Heavy Duty Cobot Pedestal, 585 mm](#)
- [Heavy Duty Cobot Pedestal, 945 mm](#)
- [Heavy Duty Cobot Pedestal, 1215 mm](#)
- [Industrial Robot Pedestal, 600 mm](#)
- [Industrial Robot Pedestal, 1000 mm](#)
- [Telescopic Lift Column](#)

## Supported Grippers & Adapters

- Vention custom grippers with PIAB suction cups
- [Joulin Safe-and-Light Vacuum Gripper 120 x 240 mm](#)
- [Joulin Safe-and-Light Vacuum Gripper 160 x 320 mm](#)
- [OnRobot 2FGP20 Electric Clamp Gripper](#)
- [OnRobot VGP20 Electric Vacuum Gripper](#)
- [Dual Joulin Safe and Light Cobot Adapter](#)
- [Cobot Palletizer 100mm Wrist Extension](#)
- [Cobot Palletizer 150mm Wrist Extension](#)

- [Cobot End Effector Plate](#)
- [End Effector Plate for UR20](#)

## Supported Conveyors

- Compatible with roller or belt conveyors
- Automated or gravity infeed
- Single or double infeed (feeding the same or 2 different pallets from 2 production lines asynchronously)
- Line priority sensor for asynchronous capabilities