

# Columbia/Okura LLC

## miniPAL+

Cobots are designed to interact directly with human operators, ensuring safety through limited force and speeds. The miniPAL+™ safety features include area scanners and radar, which monitor the palletizing cell and slow the robot to collaborative speeds if a person enters. Additionally, guarding creates a physical barrier while optimizing the footprint of 10' x 11'.

Dual pallet building locations reduce downtime when one pallet load is completed and needs to be removed from the cell. The system uses 110V AC power from a standard power outlet, making it quick and easy to integrate. It can be set up and running within a day of deployment.



### Features:

- Enhanced Safety
- Increased Productivity
- Reduced Labor Costs
- Improved Quality
- 6-10+ CPM (20kg/44 lbs Payload)
- 80"+ Load Height
- Flexible Deployment
- Load Height Adjustability
- 110V 20A Power

## Specifications:

### ■ Software version required

Polyscope 5.13.1+  
Pally (Pattern Programming Software) 3.1.0  
VNCServer-0.0.1-BETA01

### ■ Dependencies

The system requires 110 V, 20 A, 80 psi, and 6 CFM of power and air, respectively. Safety scanners and radar are required for full-speed operation.

### ■ Dimensions

10' x 11'

### ■ What's in the box?

- Robot Assembly
- Guarding Assembly
- End Effector Assembly
- Conveyor Assembly
- Sheet Table Assembly

### ■ License type

One-time purchase

