



Application Solution:
Pick & Place

A pick and place cobot is a collaborative robot designed to pick up and move objects, often from one location to another, while working alongside human employees. These cobots are used in various industries like manufacturing, warehousing, and electronics assembly. They offer benefits like increased speed, accuracy, consistency, and reduced human strain, particularly in repetitive tasks.

IDEAL USE CASES:

- Order fulfillment and packaging lines
- Bin picking for kitting or assembly
- Electronics, plastics, or lightweight part movement
- High-mix/low-volume manufacturing environments

WHAT YOU NEED:

Cobot Arm: 6-axis collaborative robot, 5–10kg payload, 900–1300mm reach

Gripper: Vacuum or adaptive 2-finger gripper, depending on part type

Mount/Base: Fixed pedestal or mobile cart for flexible deployment

Part Presentation System: Standard bin or tray setup for pick and drop zones start/stop and status feedback

Vision System (Optional): 2D camera with object detection (optional upgrade)

Safety Device: Area scanner or light curtain (optional depending on layout)

Programming Software: Intuitive drag-and-drop programming interface with pick/place templates

Training & Support: 1 day on-site setup and calibration + 4 hours remote support/training

SPECIFICATIONS:

Payload: 10 kg

Reach: 900–1300 mm (model dependent)

Cycle Time: ~15–25 sec depending on part

Repeatability: ±0.03 mm

Power: 110–240V standard outlet

PACKAGING OPTIONS:

Standard: Cobot + gripper + basic tray layout

Plus: Adds 2D vision system with part recognition

Premium: Mobile base + advanced part detection + integrated I/O for conveyor lines

