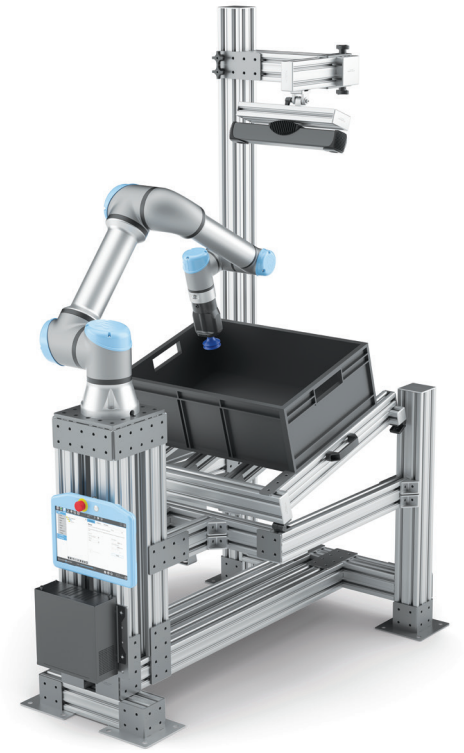
# ActiNav Autonomous Bin Picking

by Universal Robots



## Pick. Path. Place. Bin picking that simply works

ActiNav Autonomous Bin Picking combines market leading collaborative robots, a 3D sensor and autonomous robot motion control to solve unstructured bin picking and accurate placement for machine tending applications.

Unlike conventional alternatives which require lengthy and complex integration and programming efforts, ActiNav simplifies the application with end to end autonomous motion. This makes random bin picking accessible to small and large production facilities alike.

## Features and Benefits

+ ActiNav Autonomous Motion Module controls the robot during pick, path and place
+ Collision-free autonomous motion through the environment enables higher machine uptime
+ Teach by demonstration pick and place training is easy and does not require any robot programming experience
+ Autonomous motion reduces program size by up to 90% fewer lines of programming
+ Flow-based, intuitive setup is entirely on the teach pendant
+ CAD matching and high resolution sensor enables high-accuracy picking
+ Works in deep bins which reduces time between refilling
+ Works with suction, magnet or internal grip end effectors

## How does it work?

Position a UR e-Series robot in your existing operator workspace, attach the end-effector of your choice and mount the included 3D sensor above your bin of parts

Using only the teach pendant, train your environment by touching objects the robot can reach. Then, using the scan-to-teach feature, train the desired pick points and part-relative placements.

The Autonomous Motion Module (AMM) enables the robot to actively navigate into the bin, move through the environment collision-free, and place parts into the machine. No two paths are the same.

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ActiNav
AUTONOMOUS BIN PICKING

UNIVERSAL ROBOTS
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## Technical details

**Includes a URCap plugin:**
Yes

**Compatibility:**
UR5e, UR10e

**Software required:**
PolyScope 5.6

**Certifications and standards:**
ActiNav Autonomous Motion Module and 3D Sensor comply with the following standards:

EMC: CE/FCC Class A, CCC, BSMI

Safety certificates: UL, CB, CCC, BSMI

**Dimensions:**
Typical UR5e system including frame, sensor and bin (LWH):
1200 x 800 x 2000 mm

Max Bin Size (LWH):
M Sensor - 630 x 490 x 450 mm
L Sensor - 1100 x 970 x 850 mm

3D Sensor M - 77 x 68 x 416 mm
3D Sensor L - 77 x 68 x 616 mm

Autonomous Motion Module -
232 x 90 x 232 mm

## Suited for the following applications

+ Machine Tending
+ Quality Inspection

## What's in the box?

+ Autonomous Motion Module
+ 3D Sensor (size M or L)
+ Alignment Marker
+ ActiNav Bin Picking URCap
+ All cables, power supplies, brackets, screws and tools
+ Quick Start Guide

**UR Distributor**:
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